**SANDEEP JAYA PRAKASH**

**E-mail : basandeepprakash@gmail.com**

**Cell : 512-600-1375**

 **PROFESSIONAL SUMMARY**

* Experienced Business, Data Analyst & BI Developer (11+ years) ; supported various implementations, integrations & migrations, ETL & BI Development, business & data analytics, process re-engineering, testing, technology assessment, procurement, and training initiatives. Worked as a Business Analyst/Business System Analyst on iterative Software Development Lifecycle (SDLC) waterfall and AGILE (Scrum Framework), involved in Planning, Designing, Building, testing and Deployment. Knowledge and experience with Project Management Framework and principles such as scope management, time management, resource management, quality management, Risk management, cost management, integration management, communication management and stakeholder management
* Proficient in writing Business requirements document, use case specifications, Functional Requirements,user stories, customer requirement Documents, Business process modeling notation & mapping, artifacts and Workflows.
* Strong working background with designing and developing various Databases & Data warehouse, ETL, integrations and migrations development & BI reporting, Restful API’s, REST and SOAP web services, metadata & Master data Management. Good data modeling concepts for Datawarehouse, datamart and Database design (Star, snowflake, normalization and Datavault ).
* Well versed Master Data Management, data governance and data stewardship.
* Expert in Report and Query Development Process, successfully designed, generated, deployed kinds of business reports, detailed table, drill down or dashboard to the end users by employing Power BI, Tableau, Cognos, microstrategy and SSRS. Utilized various charts for visualization such as Bar Chart, Line Chart, Gannt Chart, Tree Map, Heat Map, Pie Chart, Scatter Plot and Geographical Maps to depict data in multiple layouts to allow business users measure the business Key Performance IndicatorsProficient with SQL queries & performance tuning, Unix scripting, Python, R, JSON, Java Script, Dax, Perl, PHP,power queries & M Queries. Exeprienced in system administration of SQL Server, Tableau Server, Power Bi Admin, Linux and Windows.
* Experienced in software application, DB & ETL testing which involved development of test cases, test scripts and unit testing, integration testing and User Acceptance Testing (UAT), also promoting a shared foundation of common data definitions within the organization as part of business process re-engineering efforts.
* Good knowledge and experience on working for various functional areas such as Retail, E-commerce, Sales & Marketing, Transportation, Construction, Finance & Accounting ( Procure to Pay & Order to Cash cycles).
* Leading JAD sessions to facilitate discussions of requirements scope, priority, and dependencies. Review use cases from the product backlog, assess the release backlog. Work with application architects, developers, technical specialists, testing teams thereby coordinating efforts. Encompassing the usage of industry standards to cover the client requirements and identifying the system requirements by Use Case Models, Data Flow Models etc.
* Conducting Predictive Modeling Analysis to predict correlation or future trends, SWOT Analysis with regards to market study & research, Cost-Benefit Analysis (make Vs buy decision), Net Present Value Analysis (NPV), Return on Investment Analysis (ROI), and Break Even Analysis, regression modeling. Experienced in Cost Estimating, planning, scheduling, Forecasting Budget (Planned value vs Actual Value), Risk Analysis, Trading & Portfolio Management.

**TECHNICAL SKILLS**

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| BI Tools | Power BI, Tableau, Microstrategy, Cognos, Business Object, Crystal Reports, SAP BI & BW & Qlikview. |
| IDE Tools | Rational Rose, Rational Clearquest, Rational Clearcase, MS Visio &UML |
| Testing Tools | HP Quality Center, Relativity, Bugzilla, JIRA, Test Director,Win Runner, Load Runner, Mercury, TestNG & Rational Clear Quest. |
| ERP Package | Peoplesoft, Oracle E Business Suite R12 &11i & SAP |
| Database/DB Tools | MS SQL, My SQL, SOQL, SOSL Access, Toad, Workflow Builder& Oracle PL/SQL |
| Languages | SQL,C, C#, C++, XML, Java, HTML CSS, VB Script , R, Perl, PHP, JavaScript, NodeJS , Bash & Python. |
| Operating System | Windows, Mac Os & Linux  |
| Methodologies | Rational Unified Process, Agile & Waterfall |
| Modeling | Erwin, Balsamiq, Bizagi, LucidChart & Visio |
| Tools/Utilities | MS Office, MS Project, Visio, Filezilla, Sharepoint, GitHub, Postman, Jenkins, Collibra, Bitbucket, Azure, SSAS, SSRS, AWS, Dell Boomi, Node JS, TFS, Snowflake, Python IDE, Putty, ZenDesk, TIB Golden Gate, Hive, Hadoop, Servicenow, Salesforce, Primavera, snowflake,Citrix, VB/VBA, Cisco Jabber, Trello, Webex, JIRA& UML. |
| ECM  | Onbase, FileNet, Adobe Experience Manager & Sharepoint |
| ETL Tool | Informatica, Pentaho, Talend, Mulesoft & SSIS. |

**PROFESSIONAL EXPERIENCE**

**Q2E Banking (Via Mobiveil), Austin Tx Mar.19 – Till Date**

**Enterprise Datawarehouse, ETL & BI Developer (Lead)/Business Data Mgmt. Analyst**

Working to develop data marts and the Enterprise Datawarehouse at utilizing star schema for Finance & Customer Support Department. Developed PowerBI Reports, dahsboards and MDM models

* Planned, communicated & documented requirements for the EDWH development for the fact and dimension tables build. Participating in stand up meetings.
* Installed and set up SSMS and SSIS. Extracted data from ODS using SSIS and perform various transformations to transform data from source to target. Developed various SSIS packages and deployed it in Azure Data Factory to run the packages. Designed and developed various components for the ETL in the control and data flow
* Created tables, stored procedures, views and functions. Performed Complex TSQL queries for DML, ETL Query and utilized linked server. Optimized and reduced the time taken by large queries to retrieve data from the server.
* Worked with various applications such as Salesforce for case mgmt..netsuite as ERP tool, JIRA. BOOMI and workday for HR data. Administration of SQL Server, Power BI , Snowflake Db and Azure Cloud server.
* Worked on complex T SQL queries to come with logic to meet business requirements for ETL source.
* Performed complex T SQL to connect to Netsuite via open query
* Reduced the time taken for Ad Hoc reports by improvising the T SQL queries and peform tuning.
* Worked on Tableau to create visualizations, story points, dashboard views and publish reports on to tableau server. Manage security and AD groups to reports and dashboards.
* Utilized Power Bi to test, validate and customize reports coming from the Datamarts.
* Gathered data, performed data shaping and interpreted various financial data related to insurance, participating in daily standup. Extracted data from Flat files, CSV, SQL Server, using PowerBI data flow to extract data to Power BI desktop.
* Created data catalog while communicating with operations and Finance division.
* Worked on implementing policies and procedures, security, metadata, data quality for the Data usage across functionalities, BI implementation, report usage and to maintain regulatory compliance as part of Data governance initiative
* Maintenance and enhancement to the existing cubes and tabular models in SSAS.
* Utilized Python & R scripting to perform extraction and complex calculations.
* Worked closely with Business Users to interpret Business requirements Documentation. Perform Exploratory Data Analysis. Used DAX to create complex measures, calculated columns and Calculated tables. Worked with power query and M query to extract data in the backend and perform transformations or data shaping. Performing fact to dimension relationship using Star Schema design. Performance tuning of Dax queries.
* Setting up Power BI Environment, creating app workspaces, publishing apps and setting up Power BI Gateway. Publishing reports to PowerBI service and then to apps to be shared to Business users for UAT.
* Worked on establishing MDM data sets to generate Power BI reports for the concerned business users.

**Kendra Scott (via Randstad Tech.), Austin, Tx**  **Oct.18- Mar.19**

**BI , DWH & ETL Developer (Lead) & Reporting Business Data Analyst**

Working with Field Operations Datawarehouse & BI Team cross functionally with various departments within the organization to maintain applications development, maintenance and Reporting for Business users.

* Planned, Communicated and strategized various ETL development activities with cross functional departments such as Ecommerce, Marketing and Finance. Created ETL transformations and jobs using Pentaho Data Integration Designer (Kettle-Spoon) and scheduling them using Cron Job. Participated in Daily scrum standout address issues, tasks and progress.
* Designed, developed database & datamarts. Utilized Azure Data factory to validate data flow into Azure Data lake and datawarehouse from source file. Debugged, tested various ETL, SQL database and BI jobs. Performance tuning of queries. Also Worked on AWS Glue and Redshift to populate data.
* Administration of on Perm SQL, Azure, AWS, snowflake and Rackspace. Removing unwanted files to optimize storage and making sure new files have been loaded to Rackspace storage. Giving security access to users for SQL db.
* Utilized different transformation in PDI to cleanse and manipulate source data e.g. Database lookup & Join, Generate Rows, Calculator, Row normalizer & De-normalizer, Java script, add constant, Add sequence
* Created mapping documents to define and document mapping between source data attributes and entities in target database
* Developed Power Bi reports while puling data from Azure using direct query. Integrated PowerBi with existing Power apps.
* Wrote Python scripts to parse XML documents and load the data in database.
* Created views to facilitate easy user interface implementation, and triggers on them to facilitate consistent data entry into the database.
* Develop of all the modeling/cubes using SSAS.
* Wrote complex T SQL, PL SQL & My SQLto perform DML, DDL operation.
* Worked on informatica IDQ for development and powercenter to perform delta and incremental load while developing ETL logic
* Develop MDM solutions for workflows, de-duplication, validations etc., and Facilitate Data load and syndication
* Designed and developed Restful API push and call integration. Developed tools using shell script, XML, Java Script, Python and JSON to perform web analytics integrations and automation process tasks.
* Utilized windows tasks scheduler to automate tasks with Pentaho and shell scripts.
* Developed Tableau reports worked on gathering KPI’s, KPM’s. Created Dashboard, views, worksheets, filters and calculated fields on Tableau and published reports on Tableau online. Also maintained Tableau extracts while debugging various issues with reporting.
* Utilized SSIS to perform ETL jobs on SQL server for the Sales and operations datamart.
* Performed Python scripting to parse XML files, remove duplicates, sort records and load into the DWH with minimum time interface and utilize Python API’s to extract data from webpages. Utilized Python Packages (numpy, pandas, matlibplot.pyspark..) to perform complex comparative product-price analysis in the market.
* Exported Data from Salesforce E Commerce Cloud and various other sources to SFTP. Also Send file or data over SFTP.

**Texas Department of Transportation, Austin, Tx ` Jun17 – Jul18**

**Business Analyst & Data Analyst & PM**

Working on the taxonomy project to support the ECM initiative across the agency with Information Management Division-Project & Portfolio Div. to support the implementation efforts of Enterprise Content Management system replacing legacy system. Performing discovery sessions across agency and recommending strategies to create enterprise wide Taxonomy, Metadata property tags and coordinating with cross functional teams for the Data Mapping effort across various application systems across DDO’s for migration of Data from Legacy system and integrating other application system to the new System.

* Conducted & Participated in kick off meetings, workshops, working closely with SME’s & Various stakeholders to capture requirements, map the business process and update the changes.
* Prepared BPMN’s( Business Process Modeling) As Is flows ( visio), use case diagram, sequence diagram , activity diagram, BRD’s ( Business Requirements), FRD’s( Functional Requirements), SRS( Software Requirements Spec.), RTM’s( Requirements Traceability), To Be Flows and coordinated TDD’s ( Technical Design) with QA team. Worked to coordinate test strategy, test plan, test cases, test data and other test artifacts.
* Involved in implementing integration flows using Mule Anypoint Studio to connect to REST & SOAP Service to Datawarehouses AWS and Azure server. Designed and developed tables, stored procedures, views and functions.
* Developed Cognos drill through reports, multipage Reports with filters, conditional formats and prompts using prompt manager.
* Develop Collibra Integrations using Mulesoft and Collibra Connect components for Reporting systems and Data

Quality metric.

* Performed Jenkins Java Api to extract and trigger build.
* Worked on various Mule components such as DataWeave, File Transport, SMTP Transport, FTP/SFTP Transport, JDBC Connector, HTTP, HTTPS, FTP etc as part of integration.
* Mapped data from CSV to XML, JSON to XML, flat-files and vice-versa using Data Weave.
* Developed and Administered Power BI reports and dashboard while scheduling refreshes while working at premium user level.
* Worked on creating SOAP and REST web services in Mule, consumption of REST and SOAP web services.
* Wrote shell script to automate batch jobs.
* Administration of SQL, Oracle and Terdata server.
* Worked on Teradata Db to perform multiload, fastload to optimize SQL queries and perform DML.
* Prepared Parameters, Filters, Contexts, Data Source Filters, Actions, Functions, Trends, Hierarchies, Sets, Groups, Data Blending, and Maps etc., Crosstab, Heat/Geo/Tree Maps, Pie/Bar Charts, Circle Views, Line/Area Charts, Scatter Plots, Bullet Graphs and Histograms for Tableau Reports and published extracts with daily refresh.
* Worked with various application systems that comprises Oracle, Sql server and snowflake Databases such as Peoplesoft (ERP), Site Manager, Project Wise, FileNet P8, Arc GIS and other custom applications used by various sections analyzing the database schema…etc, performed PL/SQL & T SQL queries to identify table, records, views, query, indexes and attributes for data mapping efforts for migration and integrations to the new COTS system. Established best practices for data use across enterprise, making best use of standards for data modeling, metadata, data governance, data quality, change controls, and data model review process.
* Used python scripts to update content in the database and manipulate files.
* Worked with SSIS to run deploy and automate jobs in Azure Data Factory, also perform DML DDL and TCL operations. Developed SSIS logic and SSAS cubes.
* Led information and data governance initiative to streamline access and control, improve compliance, and prepare for migration to a new environment in support of an operational excellence

**DFG Finance & Investment, San Mateo, CA Aug.16 – Jun17**

**Business Analyst & Data Analyst**

Development of Meta Data Management Strategy and coordinated this program with other initiatives such as products and services, data governance and system of record, to capture metadata across the enterprise. The strategy recommended that a strong data governance program be established to include metadata management going forward. In addition worked on data warehouse and business intelligence to analyze potential product profitability through unit economics and testing short term vs. long term estimates for various strategies (price, promo and sales) to identify revenue making opportunities during high volatile market. Thus helping the Business operations team to generate $100M from it’s Business.

* Created communication plans for projects, communicated with stakeholders and subject matter experts from multi cross functional areas of an organization to gathered requirements for projects, enhancement and change requests from users/external vendors and prepare Business Requirements & Functional Specification Documentation, perform impact analysis, analyze and understand the business processes, mapping the business process, Business process modeling notation and performing business process re-engineering.
* Worked on an Agile framework, attending daily scrum meetings with business & development teams analyzed users stories, use cases from product backlog to be put into release backlog to perform the tasks according burndown chart, conducting sprint sessions to update the current tasks and discussed the roadblocks to get resolutions to the issues and reviewing shippable product during each deliverable phase.
* Worked with Portfolio Management section, marketing and finance division using Tableau for reporting objects like Facts, Attributes, Hierarchies, Transformations, filters, prompts, Calculated fields, Sets, Groups, Parameters, scorecards. Create complex ad hoc reports and dashboard using Stack bars, bar graphs, scattered plots, geographical maps and Gantt charts..etc.( to perform predictive modeling analysis for product sales forecast and market forecast. Analyzing market trend through collection of past performance of annual and monthly forecast. Uplifted Portfolio from 1% to 28%, managing risks cause by market volatility).
* Utilized Talend open studio to run, debug and develop ETL jobs to perform Delta and incremental load.
* Worked with business SMEs on developing the business rules for cleansing. Applied business rules using Informatica Data Quality (IDQ) tool to cleanse data.
* Wrote shell script to automate ETL jobs.
* Used Qlikview and Qliksense to develop various visualizations from data extracted from various sources, dashboard views and filters to slice and dice through visualizations.
* Worked on developing Informatica Mappings, Mapplet, Sessions, Worklets and Workflows for data loads. Created complex mappings in Power Center Designer using Aggregate, Expression, Filter, and Sequence Generator, Update Strategy, Union, Lookup, Joiner, XML Source Qualifier and Stored procedure transformations.
* Used Informatica debugging techniques to debug the mappings and used session log files and bad files to trace errors occurred while loading.
* Developed reports visuals on Cognos Report studio and to manage metadata on framework manager.
* Installed and configured R studio and packages. Performed R Scripts to perform various statistical calculations and graphs as part of predictive modeling analysis.
* Coordinated to develop Enterprise Data Warehousing efforts to integrate the business to single environment to access data on a single platform using Informatica Power Center 9.5.1 tool for extracting data from Various Source systems (Oracle, SQL Server, DB2, Flat Files, Teradata, AWS,SAP & Sales Force) into Datawarehouse repositories conformed Facts & Dimensions, Slowly Changing Dimensions, Surrogate Keys, Star Schema and Snowflake Schema.
* Performed complex T SQL queries against multiple data base environments (Oracle 11g, DB/2, Teradata) as part of de-bugging, testing or responding to business user requests. Developed and designed various database objects. Optimized performance tuning
* Worked on designing data models, attributes and entity relationships and normalization of Databases.

**IEEE, San Francisco, CA Nov. 2014– May 2016**

**Business & Data Analyst**

Customer online access web E-com Project. Implementing various Order Process, Customer Billing, Payments, PCI info, and performing analytics for the cross functional business teams for reporting.

* Engaged with stakeholders and SME’s to gathered requirements, developed solution, managed application development, and data conversion and initialization across multiple environments Master Data Management (MDM) Content Management (Offer Management), Product Creation from requirements through stabilization.
* Participated in daily stand-ups and scrum ceremonies for two scrum teams. Work with product owners to groom the backlog and plan sprints. Assure that all Artifacts are in compliance with corporate SDLC Policies and guidelines. Track, escalate and remove impediments. Report at daily Scrum of Scrum meetings.
* Prepared business requirements documents, functional specification documents, systems requirements document, requirements management plan, Current-State and Future-State Process Models, Performance Indicators and project schedule. Also created Unified Modeling Language (UML) Diagrams for Business Process Modeling like Use Case Diagrams (UCD), Activity Diagrams (AD), Sequence Diagrams (SD), and Data Flow Diagrams (DFD).
* Worked with groups from functional and non-functional areas. Communicated functional requirements to technical team through technical details. Developed Test Plan, Test Cases and Test Scenarios to be used in testing based on Business Requirements, technical specifications and/or product knowledge guiding or answering questions to QAs and developers regarding the Defects, Technical Specification Documents and Mapping Documents. Worked with QA team ensuring test scenarios are prepared to provide proper test coverage and also undertook reviews of test scripts and results to ensure quality delivery.
* Worked on creating Informatica mappings with source/targets of Oracle, SAP, MS SQL and Flat Files utilizing Source Qualifier, Expression, Lookup, Normalizer, Filter, Sorter, Aggregator, Joiner, Router, Rank, SQL, Union, Stored Procedure, Sequence Generator, Update Strategy, XML Source Qualifier, Maplet Input and Output Transformations.
* Perform Data profiling in order to better analyze and model data and applied business rules using Informatica Data Quality (IDQ) tool to cleanse data.
* Worked with customers to gather requirements and setup Customer workbenches, transaction types, Transaction Sources, Auto accounting, SLA, Revenue Recognition policy, bank setups, Payment methods, Approval limits, Receipt workbench, month end closing for AR and bank reconciliation.
* Responsible for data analysis and creation of taxonomy and metadata list for the application
* Modify existing Informatica mappings to utilize Power Exchange sources and Oracle and Netezza & AWS targets.
* Compiled Weekly, Monthly, Daily Financial analysis reports as per Business Groups requests with help Teradata SQL Assistant & UNIX.
* Wrote Complex T SQL and Pl SQL queries to manipulate data on the data objects.
* Read all the functional & non-functional documents to create Test Scripts & all the possible Test Scenarios to remove & fix the bugs if any. Revalidate the fixed defects & update the Quality Centre with the results
* Worked on data modeling and produced data mapping and data definition documentation.
* Trained users on system usage, created presentations and prepared training materials.

**ICGCO, Kuwait Jan 2011– Sept. 2013**

**Business Operations Analyst**

Core Responsibilities include Business Development, managing company’s operations, strategic Partnership development and Client relations management. Identified $ 200M in Bottom line opportunities across 5 divisions which in turn reflected in generating $ 150 M yearly net revenue for the Company’s Line of Business Offering strategic pricing and promo discounts to existing clients and solicit business from new clients. Played a crucial role to expand Company’s product and business services in the local and international market Also Helped to strategize company’s investment across it’s divisions based on the performance Data collected and gathered to improve costs, operational efficiency, launch new product and optimize savings.

* Interacted and coordinated with many departments to gather requirements and to assure satisfactory data content, quality, data integrity, and receipt of desired information from JRD sessions and following the JAD methodology
* Performed data analysis in support of standard report offerings and customized client data analysis needs and maintained data integrity and consistency by passing data through several analysis steps such as parsing and prototyping.
* Designed and developed various dashboards for the business operations, product and services section created, reports utilizing Tableau Visualizations like Dual Axis, Bar Graphs, Scatter Plots, Pie-Charts, Heat Maps, Bubble Charts, Tree Maps, Funnel Charts, Box Plots, Waterfall Charts, Geographic Visualization and other making use of actions, other local and global filters according to the end user requirement
* Created and reviewed Informatica Mappings to load data using transformations like Source Qualifier, Sorter, Aggregator, Expression, Joiner, lookups. Wrote complex T SQL, PL SQL, Stored Procedures, functions, Filters, Sequence, Router, Union and Update strategy.
* Created data profiling and score cards using the informatica data quality and help business analyst to understand the tool components.
* Create JIRA production bug workflow, conduct Gap Analysis by creating Swim lane diagrams and highlight the differences between the Current (AS IS) environments versus the Target (TO BE) environment.
* Organize requirements into high level Use Cases and low level Use Case Specifications and modeled them into UC, Activity and Sequence Diagrams using Rational Rose and MS Visio.
* Wrote various SQL scripts to create database objects like tables, views, and maintain database integrity using constraints.
* Participated in Functional testing and User Acceptance testing (UAT). Executed test cases, Documenting and Resolved defects and Signed Off from Application.

**Hill Int’l& SDPM, Kuwait. July 2008 – Dec 2010**

**Project Engineer & Business Analyst**

Worked with the Senior Management of Hill Int’l & SDPM JV for a $500 Million Net Worth Smart systems Technology Project to be utilized for active and passive systems of Building automation technology Accredit the Project as LEED certified. Helped the Client and the management team to cut down 40% in costs related of overall project utility consumption Thus eliminating unwanted expenditure, reduce wastage and optimize savings.

* Identified requirements for business needs, communicated gaps and issues to management. Designed future state business process for flawless network connections.
* Performed Analysis on spreadsheets on large amount of data and creating meaningful presentations utilizing gantt charts, bar charts and pivot charts…etc.
* Conduct workshops for overall business processes and system process to ensure change management.
* Analyzed Business Requirements and created Use Cases, Use Case Diagrams, Navigation Flow, Business Flow Diagrams and Work Flow Diagrams for applications and created Activity Diagrams / State Chart Diagrams using MS Visio and created conceptual model, behavior diagrams.
* Assisted the PM and worked with cross functional team to identify areas for cost improvement, estimation, scheduling and forecasting budget. Prepares materials take-off and labor cost estimates, tender documents for biddings.
* Prepare project bar charts, PERT/CPM, project cash flow and budgetary cost estimates.
* Provide a full cost Engineering, Analysis and cost Control guidance to the Project Manager using various tools such as “earned value” for engineering and design, construction, and owner’s cost.
* Preparation and Submission of Monthly Cost Reports and Progress both to Main Contractor and Client.
* Developed methodology to monitor and control costs for estimates, labor, rentals and materials. Prepared committed, accrual, cost variance and EAC reports. Performed purchase order maintenance and management, invoice audits, reconciliation and change order tracking
* Assist the QA personnel in the creation of Test Cases using Rational Test Manager.
* Involved in performing version control and defect tracking activities using Rational ClearCase and Rational ClearQuest.
* Primary customer contact for internal notices, content management, community portals
* Participated in meetings with Developers, Project Managers and Quality Analysts to discuss business requirements, test planning, resource utilization, and defect tracking.
* Developed user manuals, presentations and training manuals as per project specifications and timelines.
* Managing requirements and mapping them to test plan and test cases.

 **EDUCATION**

UNIVERSITY OF CUMBERLAN DS Williamsburg,KY

Ph.D in Information Technology Management, expected 2022

CAMPBELLSVILLE UNIVERSITY Louisville.KY

Master of information Technology Management, Transferred 2018

CALIFORNIA STATE UNIVERSITY EAST BAY Hayward, CA

MBA (Finance), Graduated in 2016.

PONDICHERRY UNIVERSITY

Bachelors in Technology Engineering, Graduated in 2008 Pondicherry, India