

Viplav Dube

A Result-oriented Professional with expertise in **Application Design & Development and Machine Learning**, highly knowledgeable about its associated operations, targeting challenging assignments with an organization of high repute

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Profile Summary

- ❖ **Enterprising leader** with an analytical bent of mind offering a proven history of success by **supervising, planning & managing multifaceted projects, and complex dependencies**; chronicled success with **nearly 6+ years of experience in Software Development and Machine Learning**, Domain expertise entails in **HR portal domain, Healthcare Domain, Online Banking Domain**
- ❖ **Understanding of Software Development Lifecycle (SDLC)** right from *requirement analysis, documentation (functional specifications, technical design), coding and testing (preparation of test cases along with implementation) to the maintenance of proposed applications*
- ❖ Capability in devising and implementing Statistical / Predictive Models and Machine Learning Algorithms utilizing diverse sources of data
- ❖ **Proficient in manipulating and analyzing complex, high-volume, high-dimensionality data** from varying data sources
- ❖ **Excellent understanding of Machine Learning Algorithms**; developed analytical methods to support novel approaches to data and information processing.
- ❖ Leading automated deployments through the use of **CI/CD Pipelines** and
- ❖ Facilitated Data Streaming **using Kafka, Api**
- ❖ Proficient in the integration and utilization of **Sonar technology** for analysis and decision-making capabilities in marine environments.
- ❖ Proficient knowledge in **ML, DL Algorithm, OOP, Static Type Programming, and Test Cases (unit test cases and creating documentation) in different OS environments like windows, Linux (Ubuntu)**
- ❖ **Gained knowledge about Agile Techniques** such as User Stories, Continuous Integration, ATDD, TDD, Continuous Testing, Pairing, Automated Testing, Agile Games
- ❖ **Bootstrapped Scrum Framework** by Engineering Lean Practices and coordinated all Scrum Ceremonies including Release Planning, Sprint Planning, Daily Scrum, Sprint Reviews, Sprint Retrospectives & Release Review
- ❖ Developed analytical solutions for various clients; suggested recommendations for clients & increased business; Enhanced the overall integrity of software build procedures and software configuration management practices



Core Competencies

Software Development Lifecycle (SDLC)	Enhancement, Production Support	CI/CD Pipeline
Coding/Design/Development	Requirement Gathering/STLC	Cross-Functional Coordination
Incident Resolution / Project Execution	Joint Application Development (JAD)	Process Enhancement/ Root Cause Analysis



Technical Skills

Programming Language: Python, SQL, LabVIEW, Abby, HTML	ML & DL Framework: TensorFlow, Sklearn	Advanced Python library: regex, NumPy, Pandas and matplotlib
Python Framework: Django, FastAPI web framework	Databases: PostgreSQL, SQL	Deployment: GKP, Flask, Heroku, AWS
Workflow Processes: Agile Scrum Process, Waterfall Model, Rest APIs	Documentation tools: MS Office, Open Office, Confluence	Tools & Techniques: MS Project, JIRA, Mantis
Configuration Management Tools: SVN, Git Hub	Operating System: Windows 10, Windows7, Ubuntu	Browser: IE, Safari, Chrome, Firefox



Soft Skill



Education

- ❖ Pursuing Post-Graduation diploma in Data science & Machine learning
- ❖ Master in Electronics and communication (ME) in 2018
- ❖ Bachelors in Electronics (BE) in 2014



Collaborator
Communicator
Planner
Multi-tasking
Leadership



Certifications

- ❖ Pursuing MS in Data Science and machine learning from Liverpool John Moores university conducted by Upgrad
- ❖ Python and Django Full Stack Web Developer Bootcamp certification on Udemy; Python certification on HackerRank



Work Experience

**Feb'23 to Present,
Metta-Social**

Key Result Areas:

- ❖ Design, develop and deploy customize micro service.
- ❖ Service modification and upgradation.
- ❖ System architecture and design.
- ❖ API integration and modification.
- ❖ Understanding, building and estimation stories or tasks on the click-up and maintain the click-up board throughout the sprint.
- ❖ Participating in development activity from skeleton to final code.
- ❖ Data-base design and schema creation.
- ❖ Writing APIs to POST, GET, PUT, DELETE request.
- ❖ Participate in sprint design and delivering.
- ❖ Writing unittest cases and pytest cases, maintaining code on the Git repository.
- ❖ Defined and created MicroStrategy reports and dashboards on system performance and utilization metrics for preventive monitoring and effective capacity planning

**2021 to Present,
Mphasis May
(Parent Company)
as Senior Software
Engineer Developer
Client: JP Morgan
Chase**

Key Result Areas:

- ❖ Raising requests for access to the different environments
- ❖ Understanding and analyzing customer requirements and developing custom applications
- ❖ Designing request-response for every stage and getting approval from the client
- ❖ Maintaining the documentation or confluence for design and functionality-related records
- ❖ Understanding, building and estimating stories or tasks on the Jira board and maintaining the Jira board throughout the sprint, updating the status of tasks, commenting as per the requirements
- ❖ Participating in development activity from skeleton code to final code
- ❖ Building POC and presenting demonstrations in front of the customer and team
- ❖ Writing unit test cases and pytest cases, maintaining code on the Git repository
- ❖ Attending daily stand-up and weekly milestone meetings, providing demonstration (Showcase) at the end of the sprint
- ❖ Deploying applications with updated features on the different environments (SIT, UAT, PPD, PROD)
- ❖ Participating in all phases of an agile development cycle – plan, design, implement, review, test, deploy, document, and training
- ❖ Managed delivery frameworks and new technology implementation projects for streamlining related activities as per quality standards
- ❖ Managed project operations with a key focus on defining Service Level Agreements (SLAs), Standard Operating Procedures (SOP's) as well as interacting with prestigious clients, business partners, industry leaders, vendors & other key stakeholders
- ❖ Directed the preparation of system control statement documents and utility program parameters for use by data processing analysts in obtaining sign-off from operations and conducting parallel testing of the application
- ❖ Defined and created MicroStrategy reports and dashboards on system performance and utilization metrics for preventive monitoring and effective capacity planning
- ❖ Worked on service strategy, transition, operations, process management, team building, training, hiring and client relationship management

**Nov'20 to May'21,
Teamlease Digital
(Parent Company)
as a Senior Software
Engineer Developer
Client: Harbinger
Groups on the
contract of 6 Months**

Key Result Areas:

- ❖ Designed, developed custom applications and participated in development activity from skeleton code to final code
- ❖ Participated in code modification and application upgradations
- ❖ Built POC and presented a demonstration in front of the customer
- ❖ Wrote unit test cases and pytest cases, Agile Scrum Methodology
- ❖ Attended daily stand-up and weekly milestone meeting
- ❖ Worked closely with our QA team with test planning and participated in all phases of an agile development cycle – plan, design, implement, review, test, deploy, document, and training



Previous Experience

- ❖ Jul'19-Aug'20, Kevision System Pvt. Ltd. as Associate System Engineer Developer
- ❖ Dec'18-Jun'19, ARAV Systems Pvt. Ltd. as Junior Developer
- ❖ September 2014 June 2016, Pro Embedded Solutions as Hardware and Design Engineer

Personal Details

Date of Birth: 4th May'1988

Languages Known: English, Hindi & Marathi

Address: Flat No.-102, Arihant Sai-2 Apts., Navjeevan Colony, Nagpur-440015

ANNEXURE

Project 1- OCR extraction and Classification Service

The service can extract the character from documents and classify the type of document. To extract the character from the document, used Omni page OCR for extraction, Omni page OCR extraction library is already defined. By using that library, extracting OCR from the documents. After doing OCR those documents are classified further
This service package made is compatible and fixed in another service, communicated with one service to another service using kafka topics, designs requests and response of OCR extraction and classification service; provided facility of OCR and/or classification which is totally controlled by request, provided the facilities of the processing type single or batch-wise, storing the output or response of process into database and kafka topics for next services, implemented the threading functionality to improve functionality
This service gets deployed on GKP

Role: Software developer

Roles & Responsibility:

- ❖ Understanding customer requirement
- ❖ Designing service as per customer requirement, request, request and operation flow of service
- ❖ Understanding the main service where we want to fix the OCR & classification service, request, response, operation of main service and Kafka topics for placing communication between one topic to others
- ❖ Building quick POC and demonstrating to the customer; Defining milestones and estimating every milestone
- ❖ Storing responses in kafka topics and database for further service
- ❖ Designing and developing code for achieving the milestone
- ❖ Deploying applications in different environment line Dev, UAT, PPROD, PROD, GKP
- ❖ Writing unit test cases (Unit test cases)
- ❖ Participating in daily stand-up with the team and updating work status daily to the team lead and product manager
- ❖ Participating in weekly sprint to update works status to customers and present demos if required
- ❖ Creating, dividing, and updating tasks on Github

Project 2 – Admin Model for assign, approval and verification. (Microservices)

In this application, we have created one microservice on the FastAPI framework for admin verification and workflow. This microservice is built in Python fast API Framework. All created APIs process the business logic and CRUD operation in case if required. While working in this service we used Postgres's SQL. Data-base and schema design was main key role in this project. This microservice is get deployed on Amazon cloud. We used an EC2 instance of Amazon cloud. Locally Sonarqube integration was added.

Roles & Responsibility:

- ❖ Understanding Requirement and work flow of admin
- ❖ Planning, design, and develop APIs
- ❖ Maintaining Config.yaml file, reading environment and application parameters in our application
- ❖ Maintain unit test cases.
- ❖ Deploying applications in different environment line Dev, UAT, PPROD, PROD
- ❖ Participating in daily stand-up with the team and updating work status daily to the team lead and product manager.
- ❖ Participating in weekly sprint to update works status to customers and present demos if required
- ❖ Creating, dividing, and updating tasks on Github

Project 3 – Corporate Model to provide funds to NGOs under CSR1. (Microservices)

In this application, we have created one microservice on the FastAPI framework for corporate verification and workflow. This microservice is built in Python fast API Framework. All created APIs process the business logic and CRUD operation in case if required. While working in this service we used Postgres's SQL. Data-base and schema design was the main key role in this project. This microservice is deployed on Amazon cloud. We used an EC2 instance of Amazon cloud. Locally Sonarqube integration was added.

Roles & Responsibility:

- ❖ Understanding Requirement and work flow of admin
- ❖ Planning, design, and develop APIs
- ❖ Maintaining Config.yaml file, reading environment and application parameters in our application
- ❖ Maintain unit test cases.
- ❖ Deploying applications in different environment line Dev, UAT, PPROD, PROD
- ❖ Participating in daily stand-up with the team and updating work status daily to the team lead and product manager.
- ❖ Participating in weekly sprint to update works status to customers and present demos if required
- ❖ Creating, dividing, and updating tasks on Github

Project 4- Data Migration from S3 Bucket

In this application, we migrate data from S3 bucket using a glue job deployer. Using the Boto 3 library we are collecting all glue job parameters and from that job parameters, we are creating Athena query. By executing the Athena query, we execute the redshift load and collect data from S3 bucket with the specified parameters. This application is deployed through the CICD pipeline, triggering from the jules.yaml file. To pass the CICD pipeline we have taken care of more than 85% of code coverage is covered

Roles & Responsibility:

- ❖ Understanding existing python scripts, spotting the effecting code modification
- ❖ Following PEP protocols for modification of code
- ❖ Gathering requirements of python package and library and installing from requirement.txt while creating a build in the CICD pipeline. Triggered build process from jules, yaml file
- ❖ Maintaining config. yaml file, reading environment and application parameters in our application
- ❖ Writing unit test cases (Unit test cases); Covered more than 85% of coverage
- ❖ Defining and estimating every milestone

- ❖ Deploying applications on GlueJob on the environment through jules. yaml
- ❖ Participating in daily stand-up with the team and updating work status daily to the team lead and product manager
- ❖ Participating in a weekly sprint to update works status to customers and present demos if required
- ❖ Creating, dividing, and updating tasks on Github

Project 5- External Review Survey (Web application)

This Django based framework application provides surveys based on external reviews. External reviews are taken from Facebook and Google. Reviews available on Facebook and google business pages associated with business accounts are fetched and stored in the application database. For negative reviews, we can send a notification to the authorized person associated with a particular business. We can also reply to those negative reviews for customer satisfaction. To fetch and reply to reviews we are calling API and get data from the response and store it in the application database

Role: Senior Software Developer

Roles & Responsibilities:

- ❖ Understanding Customer requirement
- ❖ Analysis of the registration process for Facebook and Google
- ❖ Analysis of APIs to fetch and respond to reviews
- ❖ Creation of documentation on basis of analysis
- ❖ Building quick POCs to fetch reviews
- ❖ Demonstration functionality to the customer on basis of quick POC
- ❖ Creation of test application on Facebook and Google developer console
- ❖ Creation of database schematic to save authentication and authorization credential
- ❖ The development process from skeleton code to final application
- ❖ Understanding existing database and saving required data into an existing database
- ❖ Writing test cases for testing development logic
- ❖ Participate in CI-level integration
- ❖ Participate in daily stand-up with team and update work status daily to team lead and product manager
- ❖ Participate in a weekly sprint to update the status of the work to customers and present demos if required
- ❖ Creating, dividing, and updating tasks on Github

Project 6 - Update of Product Speciation. (Microservice)

This microservice build on FastAPI to provides a detailed specification of selective products, added an application whose main function is to provide product specification with their informative images; created a new database schematic to save product detail specifications and information gets collected and uploaded to the front-end

Role: Associate Software Developer Roles & Responsibilities:

- ❖ Understanding Customer requirements
- ❖ Building quick POCs
- ❖ Design database schematic on basis of specification detail
- ❖ Creation of documentation for database schematics
- ❖ Demonstration functionality to the customer based on quick PO
- ❖ The development process from skeleton code to final application
- ❖ Writing test cases for testing development logic
- ❖ Participate in CI-level integration
- ❖ Participate in daily stand-up with team and update work status daily to team lead and product manager
- ❖ Participate in a weekly sprint to update works status to customers and present demos if required
- ❖ Creating, dividing, and updating tasks on Github