

PERSONAL INFORMATION



TECHNICAL FORTE

Machine Learning: Supervised /Unsupervised Learning, Feature Engineering, Auto-ML

Deep Learning: Supervised, Unsupervised/Self Supervised

Computer Vision: YOLO, CNN

Natural Language Processing: BERT, RNNs, LSTMs, LLMs, OpenAI

Languages: Python, Java

Data Orchestration: Kubernetes, Docker, Kafka

Framework: FLASK, ML-Flow

Database: Elasticsearch, MongoDB, SQL, SQuirrel

Cloud: Azure

CI/CD & Versioning: Jenkins, Git, Bitbucket

Data Visualization: Kibana, Tableau, Power BI

EDUCATION

2019-2020: Post Graduate Program - Artificial Intelligence/Machine Learning - Great Lakes and McCombs School of Business-University of Austin at Texas

2007-2011: Bachelor of Engineering - M.S. Ramaiah institute of Technology, Visvesvaraya Technological University-Belgaum, Karnataka

WORK EXPERIENCE

Sep 2022 – Till Date

SHASHANK SHEKHAR

Bangalore, India

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Sex: Male | **DOB:** 1-APR-1988 | **Nationality:** Indian

PROFESSIONAL SUMMARY

- Accomplished Data Scientist with overall work experience of 12 years comprising of 5+ years of experience delivering innovative AI and machine learning solutions across diverse industries – telecom, investment banking, insurance, entertainment, and healthcare.
- Expertise in database management, SQL, and cutting-edge visualization tools to generate actionable insights.
- Demonstrated success in overseeing end-to-end project deliveries, collaborating with international clients and higher management.
- Effective team leader adept at guiding cross-functional teams to achieve project goals
- Exceptional ability to build strong client relationships, resulting in business growth and client satisfaction
- Proactive in driving innovation and optimizing performance in data-driven initiatives.
- Passionate about harnessing the power of analytics to deliver lasting impact and strategic value.
- Skilful in staying abreast with emerging technologies & industry trends in data science, AI.
- Skilled communicator capable of presenting complex data and insights to both technical and non-technical stakeholders, ensuring maximum impact and understanding.

CERTIFICATION

- AZ-900: Microsoft Azure Fundamentals
- IBM Data Science Professional Certificate
- Fundamentals of Visualization using Tableau: University of California, Davis
- Essential Design Principles for Tableau: University of California, Davis

SKILL SET

Python | Docker | Kubernetes | Linux | SQL | Data Analytics | Machine Learning | Deep Learning | Natural Language Processing | ETL | Forecasting | Recommender Systems | Optimization Techniques | Batch Processing | Kubernetes | Kafka | Computer Vision | Data Transformation | Data Wrangling | Data Integration | Elastic Search | Data Partitioning (Train/Test/Validation) | Data Augmentation | Data Anonymization | Correlation | Hypothesis Tests | Data Engineering | Feature Engineering | Data Visualisation | Tableau

Senior Data Scientist, Fujitsu Consulting India Pvt Ltd, India

	<ul style="list-style-type: none"> Developed ML and DL based modules for Fujitsu in house AI application for anomaly detection, correlation, classification, forecasting, and data insights, specifically tailored for data from RU routers used in the telecom industry. Maintain project deployment on Kubernetes clusters for multiple environments maintaining their deployment status and image registry. Worked on enhancing model performance by identifying areas for improvement in data ingestion algorithms, data visualizations from kibana (from ELK stack), bug fixes ensuring seamless data processing for ML models. Built a custom chatbot which can be customized to answer queries and process requests for any software/website while having all chatGPT capabilities Reengineer the correlation algorithm from the ground up to boost scalability and accuracy Developed FastAPI micro services and components for sequence mining algorithms, XML-JSON conversion and other ETL modules. Identified and developed various enhancements for classification, forecasting, and data insights algorithms.
Jan 2022 – Jun 2022	Senior Data Scientist, Innova Solutions (Standard Chartered Bank), India <ul style="list-style-type: none"> Developed reusable AI modules for evaluating data suitability, stability, and robustness in model validation, utilizing TensorFlow, PyTorch, pytesseract, NLTK, CV2, sklearn, pandas, and other Python libraries Member of the Responsible-AI (RAI) review forum and council, responsible for creating and implementing a governance framework to ensure ethical development and deployment of AI technology and data usage, leveraging ICS and materiality assessment techniques Prepared monthly presentations using advanced charts generated with Plotly, Seaborn, and Matplotlib libraries, for business updates, stakeholder engagement, and MIS reporting.
May 2017 – Jan 2022	Senior Analyst, LTI, India <ul style="list-style-type: none"> Led and delivered an end-to-end machine learning project to predict the company's attrition rate with a 0.81 recall, employing ML-based classification models and NLP techniques (text classification) using LTI employee data for model training and validation. Contributed to a computer vision project aimed at identifying license plates of moving vehicles on streets. The project utilized YOLO v-4 from the CV2 library, pre-trained on the COCO dataset, to capture license plates in real-time Oversaw end-to-end project execution, managed risks, and ensured project quality Enhanced an existing AWS-based recommender system using collaborative filtering and SVD for the search feature on the Viacom web and mobile app
Jul 2015 – May 2017	Senior Analyst, Deutsche Bank, India <ul style="list-style-type: none"> Developed automated trade booking scripts using UFT (VBS), which were adopted by teams across various verticals, resulting in reduced manual effort during test cycles Participated in project estimation, tracking, and reporting processes
Oct 2014 – Apr 2015	Senior Analyst, Wells Fargo, India <ul style="list-style-type: none"> Worked on IVRS REST API testing using Postman and Hummingbird
Dec 2011 – Sep 2014	Analyst, Accenture Services Pvt Ltd, India <ul style="list-style-type: none"> Performed automated testing using RFT for web applications (front-end and backend/database) for a US-based home and auto insurance firm.

- ✓ **OpenAI Customised Chatbot:** Built a custom chatbot using openAI API which can be customized to answer queries and process requests for any software/website while having all chatGPT capabilities. Code placed at https://github.com/shas043/chatGPT_chatbot
- ✓ **Sentiment Analysis:** Developed a text categorization model to evaluate customer sentiments based on their IMDB reviews, achieving 85% precision.
- ✓ **Facial Recognition:** Constructed a facial recognition model utilizing Sequential (TensorFlow) with a 96% success rate.
- ✓ **Facial Detection:** Established a face detection model employing Computer Vision techniques, CNN, and Transfer Learning.
- ✓ **Image Classification:** Designed an image categorization model using KNN and deep neural networks, attaining an 88% accuracy rate.
- ✓ **Recommendation Systems:** Created a recommendation engine for an e-commerce site's clientele using a popularity-centered recommendation method, boasting 88% precision rate
- ✓ **Model Selection and Tuning:** Formulated model for forecasting high-performance concrete strength using Regression, Decision Trees, Feature Engineering, achieving 83% accuracy.
- ✓ **ML Supervised Learning:** Developed a model for predicting a Portuguese bank's 'Term Deposit Sale' using Classification, Decision Trees, Ensemble Techniques, with 89% accuracy.
- ✓ **ML supervised Learning:** Pointed potential loan clients using KNN/Classification techniques.
- ✓ Built an automated bitcoin price tracker with a Raspberry Pi-4, using Python.