BHARGAVI ARYA SIVA

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PROFILE SUMMARY

Statistical Data Science professional with expertise in predictive modeling, time series analysis, applied regression, and machine learning. Skilled in working with large datasets, building analytical models, and deploying AI-driven solutions. Experienced in NLP, LLMs, Generative AI, automation pipelines, and cloud platforms. Proficient in Python, SAS, SQL, and Azure, with hands-on experience using Flask APIs, Airflow, and Kafka for scalable deployments.

EDUCATION

- Pursuing MS, Statistical Data science, Florida State University with GPA 3.63/4.0, Tallahassee, Florida, USA.
  JAN 2024 – DEC 2025
- Post-Graduate Diploma In Artificial Intelligence, Center for Development of Advanced Computing ,India.
  AUG 2019 – FEB 2020
- Bachelor of Engineering, Electronics and Communication, Osmania University, India.
  AUG 2015 – JUN 2019

SKILLS & ABILITIES

- Python, Machine Learning, R, SQL, Hadoop,Power BI
- Pandas, Numpy, Flask APIs, PySpark, Airflow
- Anaconda(Jupyter, Rstudio), Visual Studio, kafka
- Cloud Azure Databricks, Azure Cognitive service
- Data Collection, Analysis, and Interpretation
- Microsoft Excel, Word, PowerPoint, Outlook, Teams
- Data Processing: Feature Engineering, Data Cleaning
- Power BI, Tabulae

PROFESSIONAL EXPERIENCE

Company Name : M Result Services

Software Development Engineer(Project : Indigo Airlines Voice Bot)   June 2023 – Dec 2023

- Developed and deployed an NLP chatbot using Kore.AI's LLM and transformer models, enhancing customer satisfaction.
- Optimized chatbot performance with attention mechanisms and generative AI, improving user experience.
- Led the development of a voice-based interface for Indigo Airlines, cutting response time by 50%.
- Improved chatbot accuracy by 90% through fine-tuning and adaptive learning.

Company Name : Quadratic Insights Pvt.Ltd.

Data Scientist (Project HDFC Bank Fraud Detection System)   JAN 2022 – DEC 2022

- Conducted EDA and feature engineering to analyze data patterns.
- Built ML models to detect fraudulent transactions for credit/debit cards and online payments.
- Utilized Random Forest and Gradient Boosting algorithms.
- Optimized machine learning models using techniques such as hyperparameter tuning, feature engineering, clustering methods, and model evaluation to improve accuracy and efficiency.
- Managed and analyzed Key Performance Area (KPA) sheets to enhance performance metrics and align with organizational objectives.
- Developed Flask APIs and utilized Airflow for task scheduling.
- Created a data ingestion pipeline using Kafka for production deployment.

Company Name : Dabur India – Easypolicy Web Aggregators and Capitalgram Insurance Brokers

Machine learning Engineer (Project : PDF Extractor Engine)   MAR 2020 – DEC 2021

- Engineered a PDF Extractor Engine to process data from multiple PDFs simultaneously.
- Gained experience in hyperparameter tuning and iterative learning models in Machine learning.
- Developed and maintained conversational AI solutions using **RASA** for building intelligent chatbots.
- Collaborated with leading insurance clients including **HDFC, SBI, ICICI, ING Vysya, and TATA AIG** to customize chatbot functionalities and workflows.
- Worked closely with **cross-functional teams** and **customer support teams** to analyze on-ground issues, improving chatbot development and identifying broader project opportunities.

ACADEMIC PROJECTS:

Predicting Monthly Revenue from Banking Customers Using Regression Modeling(April 2025)

- Built a predictive model to estimate monthly revenue based on customer demographic and financial data.
- Performed exploratory data analysis (EDA) and feature transformations to prepare the dataset.
- Developed and evaluated Multiple Linear Regression, Ridge, and Lasso models for revenue prediction
- Improved model performance using feature selection (AIC/BIC) and multicollinearity checks (VIF).
- Suggested future improvements like weekly transaction modeling, fraud detection, and Power BI dashboards.

CERTIFICATIONS

Microsoft AI-900: Azure AI and Cognitive Services, Image Processing using OpenCV, Power BI, Tabulae, ML ops, Pursuing certification in LLMs, Generative AI, and LangChain.