Abhigna Devarasetty

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Professional Summary

Data scientist with four years of experience leveraging machine learning and analytics; recognized for developing predictive models that achieved up to 75% accuracy while optimizing data pipelines that cut report generation time by 30%. Led cross-functional teams to implement data visualization strategies and automated processes that reduced manual entry time by over 50 hours monthly. Promoted within a year at Mu Sigma Business Solutions for driving significant improvements in model performance and operational efficiency.

Skills

Languages: Python, SQL, JavaScript, R, C, C++
Machine Learning & Data Science Techniques: Forecasting Models, Ensembling Methods, Statistical Analysis, Data Visualization, Natural Language Processing, LangChain, LLM, RAGs, A/B testing
Libraries: Pandas, NumPy, Matplotlib, TensorFlow, Keras, D3.js, SciPy, Scikit-learn
Databases & Cloud Technologies: MySQL, PostgreSQL, NoSQL, BigQuery, GCP, AWS
Developer Tools: Git, Docker, Kubernetes, VS Code, Power BI, Tableau, Excel, R Shiny, CI/CD, Shell Scripting
Frameworks: React, Node.js, Selenium, Material-UI, RestAPI, Express, Kafka, Socket.io

Professional Experience

Sabhya Technolgies

Data Analyst - Internship October 2024 – Present

- Automated dataset transformation processes in Odoo through custom Python scripts; reduced manual entry time by 50 hours monthly while enhancing reporting accuracy to support strategic decision-making within the sales team
- Created customized dual-view quotation reports in Odoo, enhancing internal and customer sales experience; improved report generation time by 40%, enabling faster decision-making for the sales team and clients
- Analyzed business requirements and supported the implementation of Odoo CRM and Inventory modules, optimizing workflows and operational efficiency

Hoosier Community Network (Indiana University)

Data Scientist - Senior Consultant July 2024 – Present

- Built and maintained scalable data pipelines using SQL and Python, reducing manual effort by 40% and improving data accuracy
- Directed and Developed Tableau dashboards to visualize health data, reducing report generation time by 30% and aiding data-driven decisions
- Established a sales forecasting model using statistical techniques and ML algorithms, with 75% accuracy on e-commerce company's historical data, enhancing decision-making and inventory management
- Analyzed job postings using Google Cloud Platform, BigQuery, and Looker Studio to extract insights on trends, skill demands, and hiring patterns, enhancing data-driven decision-making

Mu Sigma Business Solutions

Data Scientist - 2 January 2021 – July 2022

- Guided a team of data scientists through complex analytical challenges, enforcing best practices in model development and data preprocessing, resulting in a 20% rise in model accuracy and 10% faster data pipeline deployment
- Directed Elasticsearch for data retrieval, reducing query times from 10 to 5 seconds, which enhanced data accessibility and user productivity in analytical tasks
- Conducted A/B testing and collaborated with multidisciplinary teams, including Product and Engineering, to convert user requirements into technical solutions, bridging the gap between software development and data science

Data Scientist - 1 May 2019 – December 2020

- Optimized data preprocessing and implemented advanced feature engineering techniques for pair selection algorithms, improving model performance by 10%-15% in predicting high-potential stock pairs for trading
- Designed comprehensive dashboards using advanced analytics tools, facilitating real-time monitoring of key performance indicators within the trading workflow; achieved up to five actionable insights daily for optimizing strategy execution without team intervention.
- Implemented and refined predictive algorithms to identify the top 30 stock pairs based on correlation and market trends, automating $10,000 trades per pair daily and driving data-driven decision-making to enhance team profitability

Projects

- Improved recommendation accuracy and computational efficiency by analyzing LightGCL, SimGCL, and XSimGCL models using the MovieLens 100k dataset
- Achieved DICE scores of 0.828 (uni-modal) and 0.817 (multi-modal) using TensorFlow, Keras, and U-Net, optimizing VoxelMorph for better MRI image registration precision using deep learning techniques
- Created a multimodal GenAI app to analyze clothing images, recommend similar items, and purchase locations. Utilized LangChain and Vertex AI for processing and designed a user-friendly interface with Streamlit, optimizing real-time performance

Recognitions & Certifications

- Oracle Cloud Infrastructure 2024 Generative AI Certified Professional
- Awarded 3 Spot Awards and an Impact Award at Mu Sigma for exceptional performance and pioneering enhancements in the data catalog project, resulting in a 35% increase in data utilization and contributions to organizational growth

Education

Indiana University - Bloomington, Indiana

Master of Science in Data Science — Statistics, Deep Learning, AI, Advanced Database Concepts, Applied Algorithms

Vasireddy Venkatadri Institute of Technology - India

Bachelor of Technology in Computer Science — Data Mining, Database Management System, Software Engineering