SAISRI VISHWANATH

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SUMMARY

Graduate student with over a year of experience, skilled in AI/ML and software development, actively seeking roles to drive innovative solutions

EDUCATION

Syracuse University, College of Engineering and Computer Science **Jan 2023 - Dec 2024**
Master of Science in Computer Science (GPA: 3.7/4)
Coursework: Statistics, Machine Learning, Natural Language Processing, Reinforcement Learning, Large Language Models, Data Science and Analytics

PES University, Department of Engineering **Aug 2017 - May 2021**
Bachelor of Engineering in Electronics and Communication (GPA: 9/10)
Coursework: Mathematics, Data Structures and Algorithms, Object-oriented design, Operating Systems, Artificial Neural Networks, Deep Learning

TECHNICAL SKILLS

- **Languages/Database** - Python, Java, JavaScript, HTML, CSS, SQL, Oracle Database, MySQL, SQL Server, Pinecone (vector database)
- **Frameworks** - PyTorch, Tensorflow, Scikit-learn, NumPy, Pandas, Keras, Matplotlib, NLTK, Seaborn, LangChain, Flask, React, Node.js
- **Tools** - Tableau, Snowflake, Git, JIRA, Agile/Scrum, Docker, AWS SageMaker, Postman, HuggingFace, MS Power BI, Microsoft Excel
- **IDEs/Operating System** - VS Code, Jupyter Notebook, Eclipse, Windows, Linux

PROFESSIONAL EXPERIENCE

Associate Developer - Oracle **July 2021 - December 2022**

- Spearheaded an **end-to-end data migration project**, ensuring zero data loss across over 1 million records by conducting root cause analysis
- Developed and optimized **30+ complex SQL analytical reports**, reducing query execution time by 50% and increasing system performance
- Reduced data processing time by 40% through efficient **SQL-based ETL** processes, integrating data warehouses, and APIs seamlessly
- Prepared and analyzed over 20 dashboards for the sales team by tracking **KPIs using Tableau**, resulting in a 30% increase in product sales
- Leveraged **statistical analysis** and regression modeling skills to improve operational efficiency by 25% through analysis of key business data
- Performed comprehensive **EDA on 500k+** records, identifying patterns and outliers, which led to a 20% improvement in forecasting accuracy
- Trained **40+ new hires** on advanced SQL tools and best practices, elevating overall team proficiency and readiness by 20% across operations

Engineering Intern - Publicis Sapient **January 2021 - June 2021**

- Conducted **data profiling and cleansing** on millions of records, improving data integrity and achieving a 15% increase in reporting accuracy
- To optimize inventory, built a predictive model with **Random Fores**t to forecast product demand, reducing stockouts and overstock by 15%
- Analyzed customer data, segmented customers using **K-Means clustering**, and developed targeted marketing strategies, boosting sales by 20%
- Led **A/B testing** on customer engagement strategies, optimizing targeted campaigns to reduce Customer Acquisition Cost (CAC) by 20%

PROJECTS

Healthcare Information Retrieval - Langchain, Pinecone, Python, LLM, NLTK, Flask **May 2024 - June 2024**

- Developed a healthcare information retrieval system using **RAG techniques**, **OpenAI LLM API**, and **NLP algorithms** to efficiently retrieve and summarize condition-specific medical literature and clinical trials, improving the accuracy and speed of data-driven insights

Flight Delay Prediction - ML, Python, Keras, Tensorflow **January 2024 - May 2024**

- Developed a machine learning model to predict airline arrival times by applying dimensionality reduction with **PCA** and implementing a **Stacking Ensemble classifier** with **Gradient Boosting**, achieving a predictive accuracy of 0.6

Grammar Error Corrector - Python, NLP, RNN, LSTM, NLTK, PyTorch **August 2023 - December 2023**

- Developed a grammar checking algorithm using **Seq2Seq Encoder-Decoder** with an **attention mechanis**m in PyTorch, performing extensive preprocessing on the Lang-8 Corpus data and achieving an average **BLEU score of 0.7** to improve text quality and error correction

Brain Controlled Interface for Controlling Robotic Arm - Python, numPy, TensorFlow, Pandas **August 2020 - April 2021**

- Developed a brain-controlled interface to enable paralyzed patients to control a robotic arm by implementing an **Artificial Neural Network (ANN)** model with early stopping and cross-validation techniques to prevent overfitting, achieving an F1 score of 0.8

Acute Infarct Location Detection – Python, TensorFlow, Keras, Pandas **January 2020 - May 2020**

- Developed a deep learning algorithm using **Convolutional Neural Networks (CNNs)** for automated infarct detection and classification in stroke patients' MRI scans, achieving an accuracy of 45% and advancing stroke diagnosis technology

LEADERSHIP & AWARDS

- Awarded the **C N R Rao Merit Scholarship** for all **8 semesters** of my bachelor's degree for ranking in the **top 20%** of academic performers
- Received a **25% merit scholarship** for exceptional academic performance and dedication to the field of computer science in master's program
- Demonstrated strong logical thinking by solving nearly **400 LeetCode challenges**, earning **multiple badges** to enhance my algorithmic skills