SAISRI VISHWANATH

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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 Mining and Analytics

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

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

Analyst - 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
- Analyzed customer data, segmented customers using **K-Means clustering**, and developed targeted marketing strategies, boosting sales by 20%
- 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**
- Developed and optimized the front-end of an e-commerce website using **React, HTML, CSS, and JavaScript**, improving load speed by 30%
- Collaborated with back-end engineers to integrate **RESTful APIs**, ensuring seamless data flow and achieving a 25% faster checkout process
- Implemented **Bootstrap** components to create a user-friendly, **mobile-responsive interface**, increasing mobile user engagement by 20%
- Conducted A/B testing and user feedback analysis on UI components, leading to a **15% boost** in retention and improved customer satisfaction

PROJECTS

Healthcare Information Retrieval - Langchain, Pinecone, Python, LLM, NLTK, Flask   **May 2024 - June 2024**
- **Developed a healthcare information retrieval system using RAG techniques**, enabling efficient retrieval and summarization of medical literature and clinical trials to support data-driven insights.
- Utilized NLP algorithms, including the **OpenAI LLM API** , to analyze extensive medical text data for precise retrieval of condition-specific information, optimizing information retrieval processes

Grammar Error Corrector - Python, NLP, RNN, LSTM, NLTK, PyTorch   **August 2023 - December 2023**
- Developed an efficient grammar checking algorithm using **Seq2seq Encoder-Decoder** with an attention mechanism in PyTorch
- Performed extensive preprocessing on Lang-8 Corpus data, employing techniques in **data cleaning, normalization, and feature extraction**

Brain Controlled Interface for Controlling Robotic Arm - Python, numPy, TensorFlow, Pandas   **August 2020 - April 2021**
- Developed and implemented a **brain-controlled interface**, enabling paralyzed patients to control a robotic arm with 71% accuracy
- Engineered an **Artificial Neural Network (ANN)** to classify signals, ensuring seamless interaction and precise control of the robotic arm

Acute Infarct Location Detection – Python, TensorFlow, Keras, Pandas   **January 2020 - May 2020**
- Developed a **deep learning algorithm** for automated infarct detection and classification in stroke patients' MRI scans, achieving 45% accuracy
- Utilized **Convolutional Neural Networks (CNN)** to analyze MRI images and identify infarct location, 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
- Organized engaging sessions that boosted students' understanding and stimulated interest in STEM fields as a **Summer Program Assistant**