Sravani Thota

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EDUCATION

San Jose State University   Aug 2022 – May 2024 | CA, USA
M.S in Software Engineering with Data Science specialization, **GPA: 3.9/4.0**
Courses: Data Mining, Machine Learning, Deep Learning, Enterprise Software Platforms, Software Systems Engineering.

VR Siddhartha Engineering College   Aug 2013 – Apr 2017 | Vijayawada, India
B.Tech in Electronics and Communication Engineering, **GPA: 8.91/10.0**

SKILLS

Languages: Python, SQL, Java, C, C++, JavaScript, HTML, CSS, Shell Scripting, and Batch Scripting.
Database: MySQL   **Cloud:** AWS(EC2, S3, SageMaker), GCP(Vertx AI)   **Web:** Flask, REST API   **Others:** Git, CI/CD, Data Structures, Object Oriented Programming, Power BI, Tableau, Pandas, Probability and Statistics, ML(Algorithms), Data Visualization, Exploratory Data Analysis(EDA), Hadoop, Pyspark, Prompt Engineering, NLP, Beautiful soup.

PROFESSIONAL EXPERIENCE

Flexon Technologies Inc.   Feb 2024 – Present | CA, USA
AI/ML Intern

- Leveraged Large Language Model (**LLM**) for efficient entity extraction from multiple documents.
- Engineered **Pinecone** vector database for storing and querying embeddings, optimizing search and retrieval processes.
- Orchestrated seamless integration of **MongoDB** for entity management, ensuring data consistency and accessibility.
- Spearheaded development of a **memory-based** chatbot using **Langchain** framework, enhancing user engagement and interaction.
- Implemented end-to-end automation with **Azure services (Logic Apps, Functions, cloud deployment)**, enabling scalable and efficient talent acquisition workflows.

Pluto AI   May 2023 – Aug 2023 | CA, USA
Data Scientist Intern

- Analyzed sales data from the retail sector to study how shop size, departments, and holidays affected weekly sales.
- Handled **missing data**, **outliers**, and **data stationarity** to produce accurate analysis and forecasting.
- Forecasted weekly sales trends accurately using the **ARIMA**, **SARIMA**, and **exponential smoothing** models. The exponential smoothing model was deployed, and the forecasting error was impressively **reduced by 45%**, improving the accuracy of weekly sales predictions.

Global Edge Software Ltd   Dec 2017 – Dec 2020 | Bangalore, India
Senior Software Engineer

- Efficiently collaborated with data scientists to **process, clean, and transform large datasets**, resulting in a **20%** improvement in data quality and enabling more precise analysis.
- Optimized complex **SQL** queries to maximize performance and reduced query execution time by **40%**. This accelerated data exploration and analysis, **saving 2 hours** on each analysis assignment on average.
- Enhanced heart disease prediction efficacy from **71%** to an outstanding **92%** by implementing **cost-complexity pruning** on the Decision Tree Classifier. Employed a meticulous evaluation approach, utilizing **Confusion Matrix** insights, to refine and elevate the precision of the classification model.
- Developed a full-scale insurance premium prediction system by diving deep into data and deploying powerful regression models. Scored an impressive **87%** accuracy with the chosen **XGBoost model**, and made the system user-friendly with a smooth interface and **Flask API** integration. Demonstrated a seamless blend of analysis, machine learning, and practical application in the insurance domain.
- Utilized **Tableau** for **data visualizations**, producing interactive **dashboards** that effectively communicated insights to stakeholders, reduced meeting time by **25%**, and facilitated faster decision-making.

Software Engineer Intern   May 2017 – Nov 2017 | Bangalore, India

- Actively worked on developing a **Python-based** module for generating functional and code coverage that replaced the previous shell and batch scripts, resulting in a **40%** reduction in the coverage reports generation time.
- Played a key role in automating the test runs and maintaining the records using the **Rational Quality Manager (RQM)** tool, by developing a highly efficient **Python-based** modular solution that communicated via **REST APIs**, resulting in a **50%** reduction in tests execution cycle time.
- A **60%** improvement in code coverage was achieved by replacing existing coverage tools(GCOV, LCOV) with CTC, the leading code coverage tool.

Projects:

- **Mental HealthCare Assist [LLM, RAG, Langcain]:** Implemented a chatbot webapplucation that uses a fine-tuned GPT-3.5 LLM with healthcare data for effective responses to user mental health concerns. Enhanced model training with therapy textbooks using **RAG and Langchain** methodologies. Implemented an engaging web app with avatar integration for an enriched user experience and seamlessly integrated the bot with WhatsApp through **Twilio Sandbox**, showcasing a comprehensive approach to mental health support.

- **Shop-assist [YOLOv7, Gradio, Flask]:** Created a tool that assists users by scanning shelves of goods and highlighting the item they are looking for. The object detection model will identify every item on the shelf and highlight the product that the user is looking for when the user texts in the specific product they are looking for.

Achievements

2019   Received **Young Talent Award** for continuously exceeding project requirements by producing top-notch work ahead of schedule and maintaining great accuracy.

2018   Received the **Young Turk Award** for outstanding service to clients in providing highly effective solutions.