Neelima Srilakshmi Bollempalli

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Education

SUNY Buffalo, NY, USA 2022 – 2024

Master of Science in Computer Science

- **Courses:** Deep Learning, Machine Learning, Analysis of Algorithms, Database Systems, Distributed Systems

IIT Bhilai, India 2018 – 2022

Bachelor of Technology in Computer Science

- **Courses:** Machine Learning, Information Retrieval, Data Analytics and Visualization, Theory of computation

Work Experience

Jr. SAP Consultant December 2024 – Present

Ariat, San Leandro, CA

- Supported **ECC** to **S/4 HANA** migration via **IDoc** validation, **SIT** testing, and sales and delivery data checks.
- Managed end-to-end **OTC** order cycles (**B2B**, **B2C**, **DTC**) including allocations, deliveries, and invoicing.
- Resolved data, inventory issues, improving order accuracy and flow across channels.
- Generated test data for regional validation and collaborated on system fixes.

ML Intern October 2024 – December 2024

Lotus Cloud, Dallas, TX

- Trained and built skills in several Google API's

Intern Software Developer April 2024 – October 2024

Cliff Services, Herndon, VA

- Cleaned and analyzed large datasets using **Python**, **pandas**, **NumPy**, and **SQL** to extract actionable insights.
- Built predictive models (**XGBoost**, **Random Forest**), improving model accuracy by 15%.
- Performed **EDA** and created reports using **Seaborn**, **Matplotlib**.
- Evaluated models with precision, recall, and AUC-ROC metrics.

Technical Skills

- **Languages** Python, C++, C, SQL, Java, JavaScript, R, Go
- **Databases** MySQL, PostgreSQL, TacoDB
- **Frameworks** Django, Flask, TensorFlow, PyTorch
- **ML Models** XGBoost, Random Forest, ResNet, MobileNet, EfficientNet, GAN
- **Web Technologies** HTML, CSS, JavaScript, REST APIs, React.js

Projects

Chat and Query Bot with Document Retrieval and LLMs

- Scraped and indexed data using **Wikipedia library** and **Solr Schema API** to build a scalable document retrieval system, and developed a user-friendly **React** interface for seamless querying and interaction.
- Implemented an **inverted index** using the **DAAT strategy** for efficient Boolean search queries.

Emotion Recognition with Deep Learning

- Trained custom **ResNet**, **MobileNet**, and **EfficientNet** models on the **FER-2013 dataset** with high accuracy.
- Integrated models with real-time webcam input to enable live emotion classification.

Credit Card Eligibility Prediction

- Processed large datasets leveraging **Hadoop** and **Spark** for distributed data processing.
- Built predictive models and created an interactive **Streamlit** dashboard for visual insights.

Railway Management System

- Designed relational database schema in **PostgreSQL** using **PGAdmin 4**.
- Developed UI components to query train availability by station and date.

Image Colorization with GANs

- Designed a **GAN**-based **CNN** to colorize grayscale images, trained on a large dataset of colored images.
- Tuned generator and discriminator networks for stable training and visually realistic output generation.

TacoDB: Lightweight Database System

- Engineered a complete database system from scratch in **C/C++**, implementing query execution and indexing mechanisms.