

NEELIMA SRILAKSHMI BOLLEMPALLI

+1 716-617-8375 | neelimasrilakshmi19@gmail.com | [Linkedin](#) | [Portfolio](#)

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

April 2024 – December 2024

Lotus Cloud, Dallas, TX

- 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

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|---------------------------|--|
| • Languages | Python, C++, C, SQL, Java, JavaScript, R, Go |
| • Databases | MySQL, PostgreSQL, TacoDB |
| • Frameworks | Django, Flask, TensorFlow, PyTorch |
| • AWS Services | EC2, RDS (MySQL), S3, VPC, Route 53, IAM, CloudWatch, SNS, ACM |
| • ML Models | XGBoost, Random Forest, ResNet, MobileNet, EfficientNet, GAN |
| • Web Technologies | HTML, CSS, JavaScript, REST APIs, React.js |

PROJECTS

AWS-Based Dynamic Website Deployment

- Designed and deployed a scalable 3-tier web application on AWS using EC2, RDS, ALB, Auto Scaling, and Route 53, following best practices for high availability and fault tolerance.
- Implemented secure infrastructure automation with VPC, subnets, NAT Gateway, AMIs, and SNS alerts, ensuring consistent deployment and monitoring of resources.

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.

CERTIFICATIONS

- Google Maps Platform Technical Fundamentals Credential
- Google Cloud SecOps Technical Credential
- AWS Certified Solutions Architect - Associate