

# 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

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

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