

# NEELIMA SRILAKSHMI BOLLEMPALLI

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## EDUCATION

### SUNY Buffalo, NY, USA

2022 – 2024

*Master of Science in Computer Science*

### IIT Bhilai, India

2018 – 2022

*Bachelor of Technology in Computer Science*

## 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

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 (SSL), ALB
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