

BHARATH GAJULA

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Education

Northeastern University, Boston, Master of Science in Data Science **August 2023 - Present**

Related Courses: Supervised Machine Learning, Data Management and Processing

BMS College Of Engineering, Bangalore, Bachelor of Engineering in ECE **August 2018 - July 2022**

Related Courses: Machine Learning, Deep Learning, Operating Systems, C++ , C Programming, Computer Networks, Operating Systems and Embedded Systems

Work Experience

Full Stack Developer, Oracle, India **August 2022 - August 2023**

- Collaborated with bank clients to enhance digital front-end experiences using OJET, resulting in a 15% increase in user engagement and a 10% improvement in overall customer satisfaction.
- Implemented back-end java and oracle sql enhancements for banking systems, optimizing transaction processing speed by 20%, thereby improving the efficiency of internal operations.
- Provided on-site support to bank clients, offering immediate assistance and resolving errors efficiently. Maintained Jira ticket system to track and prioritize issue resolution, resulting in a 20% reduction in error resolution time.
- Developed Java classes from scratch, including ORMs, DTOs, adapters, and assemblers. Utilized Oracle SQL to design and execute queries, achieving a 25% improvement in CRUD operations efficiency and data storage.

AI Intern, Upskillz- IIT Kharagpur, India **May 2022 - July 2022**

- Specialized in YOLO and LSTM models, boosting pixel classification accuracy by 10% through advanced Python OpenCV techniques, while reducing false positives by 15%.
- Led a successful social media campaign, increasing data collection participants by 30% and improving dataset quality for enhanced model training.

Research Assistant, BMSCE, India **January 2022 - May 2022**

- Enhanced dataset accuracy by 10% through advanced data processing techniques and feature extraction algorithms, specifically designed for dark background and low-quality field images such as l-means clustering and sobel-edge.
- Assisted in data collection and cleaning, ensuring high-quality datasets for data-driven research and analysis.
- Implemented CNN and Transfer Learning models, leading to a 15% increase in model performance and effective resolution of data-related challenges.
- Trained machine learning models, actively engaging in the experimentation process to optimize training times by 20%.
- Created pipelines for CNN and focused on parameter optimization to fine-tune model performance.

Machine Learning Intern, Nokia Networks, India **January 2021 - August 2021**

- Established scalable pipeline automated processes to develop, validate, and implement machine learning models such as Xgboost, logistic regression, and Decision trees, resulting in improved efficiency and classification accuracy.
- Applied preprocessing techniques to increase tenure prediction accuracy to 96% which lead to substantial cost savings and differentiation in customer offerings by providing incentives to increase brand loyalty.

Projects

Taxi Database Management System **September 2023**

- Designed and implemented a SQL-Database Management system to enhance cab booking and ride management.
- Implemented triggers and stored procedures, reducing update times by 15% and optimizing overall performance.
- Developed a Python system for ride booking, achieving a 30% improvement in booking efficiency through optimized database CRUD operations.

Real Time ASL Translation **January 2022**

- Conducted thorough analysis on preprocessing and feature extraction for diverse image backgrounds.
- Trained datasets on VGG 16, ResNet, YOLO, and CNN for real-time gesture recognition.
- Reduced model parameters and training time by 20%, optimizing operational real time classification by 10%

COVID and Lung Diseases Detection **August 2021**

- Engineered an end-to-end CNN model for COVID-19 detection, achieving a classification accuracy of 92.5%.
- Designed a six-layer CNN architecture with additional CNN layers, which had performance boost with a 15% increase in accuracy for COVID-19 cases.
- Leveraged data augmentation techniques, resulting in a 20% improvement in CNN model efficiency, generating additional data for more accurate image classification.

Technical Skills

Programming Languages: Python, C,C++, Java,Matlab, HTML, JavaScript, CSS

Tools & Libraries: TensorFlow, PyTorch, NumPy, Pandas, Scikit-learn, OpenCV, Keras, Flask , C, C++, OJET, Knockout Js, Apache Spark

Platforms: Jupyter Notebook, Google Colab, Jenkins, Jira, VS Code, SVN, GIT Version, Oracle Weblogic, Oracle SQL, Oracle Database 11g, Eclipse, Azure machine learning studio, Oracle cloud, MongoDB, Postman API

Other Technologies: Microsoft office - Word, Excel, PowerPoint.