BHARATH GAJULA

Boston, MA || ✉ *gajula.b@northeastern.edu* || + 1 4254144108 📞 || 🔗 *linkedin.com/in/bharathgajula*

Education

Northeastern University, Boston, Master of Science in Computer 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 and C++ Programming, Computer Networks, OS and Embedded Systems

Work Experience

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

- Developed scalable RESTful APIs for enterprise-grade microservices using Spring Boot and implemented business logic for Oracle's Digital Banking web application, adhering to the 12-factor app methodology design.
- Enhanced software reliability by identifying bugs with JUnit, resolving critical issues using Java, SQL, and ORM/JPA, and analyzing logs through bash scripting.
- Built and maintained CI/CD pipelines with Jenkins integrated with Subversion to automate Gradle builds, testing, and deployment on OCI cloud servers, contributing significantly to project efficiency.
- Managed multiple concurrent projects, automating routine operations with bash cron jobs and Groovy scripts, which improved operational efficiency by up to 80%, ensuring the agile delivery of all modules with minimal technical debt.
- Represented the team in the setup, configuration, and deployment of Oracle applications across client's UAT, SIT, and Production environments.

AI Intern, Upskillz - IIT Kharagpur   **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 to design and implement a scalable data infrastructure, enabling efficient storage and retrieval of large-scale datasets for machine learning projects.

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

- Conducted literature reviews on state-of-the-art AI/ML techniques, contributing insights to research papers cited 60+ times in international journals.
- Assisted in data collection and cleaning, ensuring high-quality datasets for data-driven research and analysis.
- 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 K-means clustering and sobel-edge.
- Assisted in creating a deep learning model pipelines that lead to a 15% increase in model performance and effective resolution to optimize fine-tune model parameter optimization performance by 20%.

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

- Designed and implemented a data preprocessing pipeline to clean and transform raw data, reducing data cleaning time by 50% and improving data quality for supervised machine learning models.
- Applied Supervised Machine learning techniques to Predict tenure using the User churn and features (Customer Segmentation) accuracy with 96% which lead to substantial cost savings and differentiation in customer offerings.

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 web application for ride booking, achieving a 30% improvement in booking efficiency through optimized database CRUD operations.

Real Time ASL Translation   **January 2023**

- Performed data augmentation like the rotation of the image, the horizontal flip, the sheer transformation to diversify the training dataset and increase the model's classification performance by 10%
- Designed and implemented an algorithm for image segmentation and feature extraction for diverse image backgrounds , reducing processing time by 30% and improving object detection accuracy by 15%.

Technical Skills

Programming Languages: Python, C, C++, Java, Matlab, HTML, JavaScript, CSS, R
Databases: MongoDB, Oracle PL/SQL, PostgreSQL
Tools & Libraries: TensorFlow, PyTorch, OpenCV, Keras, Flask ,Oracle JET, KnockoutJs, Apache Spark, Spring Boot, Django, REST API, NodeJS, Tableau .
Platforms: Jupyter Notebook, Google Colab, Jenkins, Jira, VS Code, SVN, GIT Version, Oracle Weblogic, Eclipse, MongoDB, Postman API, Microsoft Azure.
Other Technologies: Microsoft office - Word, Excel, PowerPoint.
Certifications: Oracle Certified Associate SQL developer, Oracle Cloud Infrastructure 2023 Foundations Associate .