SRIVARSHA MULAKALA

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EDUCATION

Master's in Computer Science, Northern Illinois University(NIU) GPA - 3.7/4.0 | Aug 2023 - May 2025
Relevant Coursework: **Applied Machine Learning, Computer Vision using Federative Learning**, **Design and Analysis of Algorithms**, Data Mining and Pattern Recognition, Software Engineering and Testing, Database Concepts, C++, Python
B.Tech in Computer Science,Vignan's Institute of Information Technology(VIIT) CGPA - 7.8/10.0 | Jul 2019 - Apr 2023
Relevant Coursework: Big Data Analytics, Computer Networks, Artificial Intelligence, Cloud Computing, Data Visualization, Java Programming, Data warehousing,Web Development and Data Mining,Operating Systems and Computer Science Principles, including in-depth study of operating systems architecture and functionality.

SKILLS

Languages and Databases: Python, Java, C++,Java script ,HTML5, CSS3, MySQL ,relational databases
ML and AI Frameworks: TensorFlow, PyTorch,Pandas,NumPy, SciPy, Scikit-learn,Hugging Face Transformers,GAN
Cloud and Platforms: AWS, GCP, Git, Metis Server, Google Colab,Amazon S3, EC2.
Visualization Tools: Tableau, Power BI, Excel
Core Competencies: Generative AI, Data Analytics, Distributed Systems, Fault-Tolerant Systems, Computer Vision,Data Modeling, Software Engineering,Object Detection, Information Retrieval, Web Crawling.

CERTIFICATIONS

- AWS Certified Cloud Practitioner
- AWS Solutions Architect
- Google-Crash Course in Python
- Udemy - Supply Chain Management
- GFG-Complete Machine Learning and Data Science Course

EXPERIENCE

Business Consultant-Sports Car Club of America,*Illinois, United States* Jan 2025 - Present
- Formulated and executed more than 10 data-driven strategies that enhanced volunteer retention efforts within the organization.
- Redesigned almost 5 marketing campaigns using data analysis for new member registrations and improved brand awareness.

Volunteer Research Assistant – Computer Vision-NIU,*Illinois, United States* Sep 2024 - Present
- Crafted groundbreaking deep learning solutions utilizing the Medical SAM Adapter framework for medical imaging applications,achieving a Dice score of 91.5 and an IoU of 85.2, demonstrating expertise in machine learning and deep learning algorithms.
- Executed rigorous evaluations for 31 diverse research publications relating to pioneering image-recognition and object detection algorithms while working closely with esteemed scholars, which played an essential role in refining approaches towards modern healthcare technology improvements.
- Revamped training pipelines for software development on Metis Server, enhancing high-performance ML model execution efficiency by 20%, while implementing AI solutions for computer vision tasks. Leveraged distributed storage and distributed systems to manage large datasets and improve model training efficiency.

Graduate Teaching Assistant-NIU,*Illinois, United States* Aug 2024 - Present
- Improved operational efficiency by 30% by designing and implementing new algorithms and data structures combined with SQL-based reporting techniques for managing class reservations and resource allocation, ensuring accurate record-keeping and performing complexity analysis for optimal performance.
- Streamlined tracking of student performance metrics through the design and implementation of an Excel-based dashboard, reducing data entry time by 15 hours each semester while enhancing accuracy for faculty evaluations.

Software Engineer Intern-RAD Deals,*Andhra Pradesh, India* Dec 2022 - May 2023
- Developed a scalable front-end web application, integrating APIs for AI/ML-powered data visualization and quality engineering. Improved UI responsiveness by 30% and enhanced user interaction through optimized API calls. Conducted failure analysis to refine system performance and ensure seamless integration with distributed ML systems.

Undergraduate Teaching Assistant-VIIT,*Andhra Pradesh, India* Aug 2021 - Feb 2022
- Delivered customized programming and analysis mentorship to small groups of students, enhancing understanding of complex machine learning concepts while facilitating the completion of over 40 projects within tight deadlines.
- Guided diverse groups of up to five students through interactive workshops on advanced statistics and programming, resulting in an average score increase of 15% across assessments among participants.

PROJECTS

Stock Volatility Prediction Using Public Sentiment and Financial Data Sep 2024 - Dec 2024
Spearheaded the integration of natural language processing methods in Python utilizing Pandas and NumPy to assess emotional tones present within 10,000+ tweets related to high-volatile stocks, leveraging Web Crawling for real-time public sentiment data, leading to significant price movements identified during the research period's months-long analysis.

U-Net Model for Lung and Infection Segmentation Oct 2024 - Dec 2024
Devised a state-of-the-art evaluation platform that facilitated rapid evaluation of segmentation accuracy using localization techniques,achieved consistent validation scores exceeding 85%,ensuring reliability for healthcare practitioners in critical decision-making.

AWARDS

Federal Student Aid Scholarship, Awarded based on FAFSA review to support educational expenses by bridging the gap between the Student Aid Index (SAI) and Cost of Attendance (COA),covering approximately 75-80% of tuition costs.