Vijay Kumar Reddy Gade

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Experience

DBYDX Technologies Private Limited | Data Science Intern **April 2022 – April 2023**

- Developed AI tools with **Scikit-learn** and **Numpy**, improving data processing by 40% and enhancing analytics, while collaborating with analysts to integrate these tools seamlessly into existing systems.
- Enhanced user engagement by 50% through **NLP** improvements using Wit.ai for intent detection and entity extraction. Collaborated with user experience teams to align enhancements with user demands and business objectives.
- Developed models for Quora's Question Similarity task, improving response accuracy and user engagement with adaptable thresholding and clear interpretability.

Market Data Forecast | Software Developer-Intern (*as a Final Year Student*) **April 2021 – March 2022**

- Key team member in developing a cutting-edge HR Management System, pioneering transformative features for onboarding, attendance tracking, and performance evaluations, significantly enhancing HR processes for 300+ employees.
- Efficiently integrated WhatsApp into marketing campaigns, enhancing direct communication with the audience.
- Optimized WhatsApp integration, increasing message throughput from 40 to 1000 messages per second through caching and architecture redesign.

Projects

Drowsiness Detection System:

- Developed a drowsiness detection system with 95% accuracy using DLIB for facial analysis to improve road safety.
- Utilized facial landmarks and EAR with advanced algorithms for precise drowsiness level measurement and timely alerting to prevent accidents.

COVID-19 detection from chest X-ray images: 1. a deep learning classifier that takes an x-ray image as the input and assigns the input image to one of the four classes: COVID-19 positive, Normal, Lung Opacity, Viral Pneumonia.
2.an image segmentation network to segment the left and right lungs from the x-ray images.

Face Recognition Attendance System (at SCSVMV Univ. for CS Dept.): Implemented Face Recognition Attendance System using Convolutional Neural Networks(**CNNs**) to ensure precise face recognition with an exceptional accuracy rate exceeding 95%.

Characterizing Acoustic Eavesdropping for Electromagnetic Signals: Working on acoustic eavesdropping via electromagnetic signals using smartphone cameras, employing CNN and wav2vec 2.0 models on the HyperGator platform to advance cybersecurity defenses and enhance digital communication privacy..

Technical Skills

Programming: Java, Python, R, C++
Libraries: SimpleITK, Scikit-learn, Keras, Numpy, TensorFlow, Pytorch, Pandas, NLTK
Models and Techniques : Neural Networks, Regression, LLM, GAN, Decision Trees,Transfer Learning
Methodologies: Git, Linux, Image Processing,Natural Language Processing, Information Retrieval, Machine Learning, Data Structures and Algorithms, Object-oriented Programming
Databases: SQL, Database design and Management

Certifications and Achievements

- Python (Basic) at Hackerrank (got 5 star coder badge).
- "Google Cloud Fundamentals:Core Infrastructure" and "IT Security:Defence against the digital dark arts" on Coursera.
- Freelancing experience as Computer Science Subject matter expert at Chegg India Pvt. Ltd.(May 2022 – March 2023)

Education

University of Florida **August 2023 – August 2025**
Master of Science in Computer Science *Gainesville, FL*
Courses: Analysis of Algorithms, Advanced Data Structures, Distributed Operating System Principles, Computer and Information Security, Computer Networks, Mobile Computing

Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya **July 2018 – July 2022**
Bachelor of Engineering in Computer Science and Engineering; GPA: 3.57 (8.93/10.0) *Tamil Nadu, India*
Courses: Data Structures and Algorithms, Computer Networks, Database Management Systems, Object Oriented Programming, Computer Vision, Machine Learning