NAVIN KUMAR M

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OBJECTIVE

Motivated Data Scientist seeking an entry-level position to apply my expertise in solving real-world problems using Machine Learning & Deep Learning and bringing solutions to production level. Eager to contribute my skills and passion for the Deep Learning and MLOps industry to the success of the company and team

EDUCATION

B.Tech in Computer Science & Engineering
Specialization in Artificial Intelligence & Machine Learning,

Vellore Institute of Technology, Chennai   Expected 2024
Cum.GPA : 8.8
Relevant Coursework:
Machine Learning, Deep Learning, Data Structures & Algorithms, Operating System, Business Intelligence, Malware & Security Intelligence, Computer Networks, Database Management, Applied Linear Algebra, Statistics, Engineering Calculus & Software Engineering.

SKILLS

- Technical: Proficient in PyTorch, Tensorflow, AWS, MLFlow, Ray, TypeScript, C++, Python, Rust, Node.js, MongoDB, MySQL, Tailwind CSS, Tauri
- Machine Learning: Computer Vision, NLP, Generative Models, and Machine Learning Algorithms
- Soft Skills: Strong leadership and organizational skills, passionate and hardworking attitude, excellent team coordination and collaboration abilities

EXPERIENCE

Deep Learning Engineer, Remote Intern   Dec 2022 - Feb 2023
Omega Plus Technologies   *San Francisco, CA*
Built real-time face detection and recognition system for crowd surveillance, incorporating technologies such as yolov7, Kalman Filter, ESPCNv2 GAN and Containerized using Docker and optimized for real-time inference with TensorRT, enabling deployment in the cloud as an API service.

PROJECTS

AI Malware System Pretrained CoAtNet Image Transformer Model on two 1.5M malware image datasets and employed LSTM, LightGBM, and SVM models. Developed a frontend antivirus app with TypeScript and Rust and a **Web App** backend with Node.js on AWS. Performed ETL and visualized business insights with Azure Databricks and PowerBI.

Crime Anomaly & Activity Detection Developed a system to detect criminal activity in videos using pre-trained models such as EfficientNetv2-m, SwimTransformer, and CoATNet with an AutoEncoder. Classified anomalies using One Class SVM and utilized an LSTM Decoder model to increase accuracy. Implemented a **Face Recognition from Crowd** mechanism to detect the faces of victims and attackers.

Parallel & Distributed System Workspace As the head of the Distributed System team, I developed a solution to parallelize the processing of General Climate Models and Deep Learning Model training and inference by distributing the workload across the GPUs in the Ray cluster.