Subashree Dinesh

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EDUCATION

University of Colorado, Boulder Aug 2023 – May 2025
Master of Science in Data Science GPA: 3.8/4
Anna University, Chennai Aug 2017 – May 2021
Bachelor of Science in Electronics and Instrumentation Engineering GPA: 8.6/10

RELEVANT COURSEWORK

- Data Mining - Machine Learning - Computer Vision - NLP - Statistics - Big Data Architecture

EXPERIENCE

Machine Learning Engineer Jul 2022 – Jun 2023
Multicoreware Inc
- Assisted in the development of a cutting-edge multi-object tracking algorithm with TensorFlow achieving an impressive MOTA score of 78% in tracking moving pedestrians.
- Conducted quantization and pruning experiments to ensure optimal performance of heavy object tracking models on the GrAI VIP chip resulting in a remarkable 50% reduction in training time, showcasing proficiency in optimization techniques.
- Led the seamless migration of code to various ML frameworks for object detection and tracking models, including YOLO and FairMOT, demonstrating adept project management and technical skills.

Machine Learning Intern Feb 2022 – Jul 2022
Multicoreware Inc
- Engineered a minimum viable product featuring an object detection model for precise identification of vehicles and pedestrians, utilizing radar point cloud data with a 10% reduction in GPU processing power.
- Minimised manual workload by 30% by developing a visualization tool incorporating advanced clustering techniques like DBSCAN to effectively present the model's point cloud results to stakeholders.

Research Intern (Machine Learning) Aug 2021 – Feb 2022
Madras Scientific Research Foundation
- Awarded one of only 5 coveted Research Internship positions nationally from a pool of 800 applicants. Performed qualitative and quantitative research focused on detecting defects in additive manufacturing.
- Applied a variety of data augmentation techniques to generate a comprehensive 5000-image dataset encompassing both defective and pristine 3D prints, showcasing proficiency in data augmentation.
- Developed an object classification model for anomaly detection using transfer learning architecture to detect defects on 3D printed products achieving an accuracy of 89%.

PROJECTS

Visual Image Search Engine Dec 2023
- Devised and implemented an end-to-end image search engine to enhance fashion discovery employing VGG16 for feature extraction and estimating similarity with distance metrics.
- Engineered the system to scale seamlessly, accommodating an increasing volume of images while maintaining high performance.

Black Friday Sales Analysis Sep 2023
- Conducted a comprehensive analysis, using advanced hypothesis testing techniques to identify significant trends and patterns to predict purchase patterns for the year 2023.

TECHNICAL SKILLS

Programming: Python, R, SQL, C, C++
Developer Tools: GitLab, API, Google Cloud Platform, VMs, Linux
Data Visualization: PowerBI, Tableau, Excel, Matplotlib
Data Science: data mining, scraping, wrangling, modelling, charting & plotting