Shreyas Rajesh

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Education

University of California, Los Angeles(UCLA) — Expected July 2023
Master of Science in Electrical and Computer Engineering

Mahindra Ecole Centrale — Sept. 2020
Bachelor of Technology in Electrical and Electronics Engineering, **GPA: 9.23/10**

Technical Skills

Programming and Scripting Languages : Python, C++, C, MATLAB, Shell
Frameworks and Packages: Keras, PyTorch, Fastai, Pandas, Scikit-learn, Scikit-image, OpenCV, NumPy
Operating Systems : Linux, MacOS, Windows

Work Experience

Radiostudio — Apr 2021 - June. 2021
Software Engineering Consultant

- Embedded Software development in Python for high-res RTK GPS/GNSS employing RTCM3 correction
- The correction stream is broadcast from the base over the internet using NTRIP protocol
- Implemented both an Ntrip server and caster on a Raspberry Pi module on the server-side
- On the receiver side, side implemented Ntrip client to parse the data

Airprobe — Oct. 2020 - Mar. 2021
Deep Learning and Computer Vision Engineer

- Digitized entire solar plants as part of the Computer Vision team
- Trained State of the art Deep Learning Models YOLOv4 and Detectron to detect barcodes from drone images of these plants
- Achieved a 50% reduction in both time and manpower required to digitize entire plants

Ferrotech — May 2020 - July 2020
Software Engineering Consultant

- Created an automated system based on the subset sum problem to minimize scrap generated in the manufacturing of steel slabs
- Attained a 20% decrease in material wastage increasing the profitability of the product
- Reduced manpower to create engineering drawings by 50%

Elseware — June 2019 - July 2019
Natural Language Processing Intern — Article

- Built Deep Learning models to classify financial risk-based articles
- Collected data from various financial papers and articles, cleaned and labeled them
- Tested models from a simple average of embeddings to LSTM networks on the processed data

Research Experience

Mahindra Ecole Centrale — Sept. 2019 - July 2021
Research Assistant — Publication

- Applied Deep Learning to solve problems in industrial systems
- Researched on LSTM based models to predict digressions in steel casting plants to an accuracy of 98%
- Also worked on using Differential Evolution and Neural Networks to test for fault tolerance in Solar Panels

Achievements

- Awarded the merit-based scholarship Sophomore, Junior, and Senior year at Mahindra Ecole Centrale
- Won the Dell Hackathon at Mahindra Ecole Centrale which led to a job offer in Dell as a Software Engineer
- Won 3 statewide competitions as Captain of the Mahindra Ecole Centrale football (soccer) team