

PRAJWAL ANAND

Contact

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Education

University of California, San Diego

Sept. 2019 to June 2021

MS Computer Science and

Engineering

3.79 GPA

PES Institute of Technology

Aug. 2014 to June 2018

BE Computer Science and

Engineering

9.74 GPA

Skills

Python (Numpy, TensorFlow, Scikit-Learn, Pandas, Keras, PyTorch, Matplotlib)

Java

C/C++

SQL

HTML, CSS, JavaScript, PHP

R

Golang

Teaching

Teaching Assistant

June 2020 to June 2021

- Taught introductory programming courses to about 80-100 students with little to no prior programming experience, over a span of 1 year
- Led weekly discussion sections attended by about 20-30 students, and designed programming assignments
- Earned the highest rating across 10-12 different categories based on feedback from the students

Employment

Curl Analytics

Bengaluru, India

Data Scientist

July 2018 to June 2019

- Led 5-member team that developed an end-to-end drone-based surveillance product for automatic assessment of road quality
- Successfully contributed to building a working prototype, as a result of which the World Economic Forum (WEF) invited Curl to be the first Indian startup to partner in the Center for Fourth Industrial Revolution (C4IR)
- Implemented computer vision and deep learning algorithms for real-time video and LIDAR processing, mainly using Python (Tensorflow, Keras, OpenCV), and achieved an overall accuracy of 90%

Data Scientist Intern

Jan. 2018 to June 2019

- Built a real-time traffic monitoring system for tracking vehicles and identifying traffic rule violations, based on a combination of the YOLO CNN architecture for object detection and Kalman Filter for tracking, using Python and C
- Obtained a detection accuracy of 92%

University of Southern California

Los Angeles

Summer Research Intern

June 2017 to July 2017

- Assisted Prof Yan Liu and postdoc Dr Natali Ruchansky with research on Fake News Detection using hybrid deep learning
- Constructed a large dataset of news articles for the purpose of fake news detection, using Python

Societe Generale

Bengaluru, India

Summer Intern

June 2016 to July 2016

- Developed a monthly rainfall forecasting model using a combination of time series modeling based machine learning algorithms
- Obtained a final model accuracy of 84%

Projects

Live Coding Research Project

Feb. 2021 to Current

- Actively contributed to a research project under the supervision of Prof Gerald Soosairaj on studying the programming practices followed by new programmers, and analyzing how to incorporate best programming practices into formal education
- Conducted 10 student interviews and performed qualitative analysis of student coding practices as observed through 4-5 different programming problems

Visual Question Answering using Deep Learning

Jan. 2020 to Mar. 2020

- Built a Visual Question Answering model based on a CNN+LSTM architecture using PyTorch
- Implemented a model that uses stacked attention layers on top of the image and question encoders and produced a final accuracy of 62.7%

Semantic Question Similarity

Sept. 2019 to Dec. 2019

- Implemented an adapted version of Facebook's InferSent model for universal sentence representation, trained on Quora's semantic question similarity dataset
- Created a web-based search interface to take input questions and present the top 5 most semantically similar answered questions on Quora
- Obtained a classification accuracy of 85%