Chandhini Grandhi

cgrandhi@ucsd.edu | 858.205.2535 | cgrandhi

EDUCATION

UC SAN DIEGO
MS in Computer Engineering
Expected March 2020 | CA,USA

ANNA UNIVERSITY
BS in Electronics
March 2016 | Chennai, India

LINKS

Homepage:// **cgrandhi**
LinkedIn:// **chandhinigrandhi**

COURSEWORK

GRADUATE
Artificial Intelligence
Machine Learning
Recommender Systems
Embedded Computing
Data structures and Algorithms
Big Data Analysis using Spark
Machine Learning for Image Processing

UNDERGRADUATE
Operating Systems
Computer Architecture
Communication Networks
Embedded Systems
Object Oriented Programming

SKILLS

LANGUAGES:
• C • C++ • Python
TOOLS:
• Visual Studio • Mercurial • JIRA • Git • LabVIEW • Linux
PACKAGES:
• Numpy • Scikit-Learn • Pandas • Matplotlib

TEACHING EXPERIENCE

• Introduction to C programming
• Software Foundations I - Programming in C++
• Software Foundation II - Programming in C++

AREAS OF INTEREST

• Machine Learning
• Internet of Things
• Embedded Systems

EXPERIENCE

ARUBA NETWORKS, HP ENTERPRISE | Software Engineering Intern
June 2019 - Present | Santa Clara, USA

- Developed algorithm in C that lists the columns monitored by a daemon on the switch.
- Working on developing memory profiling tools in Python for a central- database based operating system.

ROTORK CONTROLS | Software Engineer
July 2016 - June 2018 | Chennai, India

- Developed software in C for ARM processor to include the task of forwarding the firmware over the air.
- Developed automatic test tools in Python to automate testing and debugging process.

PROJECTS

VISUAL QUESTION ANSWERING | UCSD

- Built a model which when given an image and a natural language question, predicts the top five most probable answers.
- Trained a model CNN based on Resnet Architecture, LSTM and a classifier to produce final results.
- Evaluated the model on balanced and unbalanced dataset of MS COCO consisting of 204721 images and achieved an acuuracy of 61%

AUDIO BASED ACTIVITY RECOGNITION | UCSD

- Trained Random Forest model on Raspberry Pi to predict the activities done by a person.
- Collected the data using Microphone, extracted features like MFCC, Delta, DDelta and fed it to the model.
- Implemented multithreading on Rpi, to record the audio and to run the ML algorithm simultaneously.

PREDICTING OUTCOME OF TENNIS MATCHES | UCSD

- Built a model that predicts the outcome of tennis matches.
- Analyzed and engineered the predictive features from the dataset.
- Trained using different models such as Logistic Regression, Support Vector Machine, Convolutional Neural Networks, Random forest with the best accuracy of 73.56% in Python.

STOCK MARKET PREDICTION | UCSD

- Modeled a predictor that predicts stock market as linear combination of three preceding indices.
- Trained the model using Linear Regression and obtained an MSE of 1.18 in Python.

AUTOMATIC SPEECH RECOGNITION | UCSD

- Built a simple model to decode English sentence from 325000 non-text observations.
- Used forward-Backward algorithm to find the most probable sequence of hidden state in Python.