

Chandhini Grandhi

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EDUCATION

UC SAN DIEGO

MS IN COMPUTER ENGINEERING

Expected June 2020 | CA, USA

ANNA UNIVERSITY

BS IN ELECTRONICS

March 2016 | Chennai, India

LINKS

Homepage:// [cgrandhi](#)

LinkedIn:// [chandhinigrandhi](#)

COURSEWORK

GRADUATE

Artificial Intelligence

Machine Learning

Learning Algorithms

Embedded Computing

Data structures and Algorithms

UNDERGRADUATE

Operating Systems

Computer Architecture

Communication Networks

Embedded Systems

Object Oriented Programming

Digital Communication

SKILLS

LANGUAGES:

• C • C++ • Python

TOOLS:

• Visual Studio • Mercurial • JIRA • Git •

LabVIEW • Linux

PACKAGES:

• Numpy • Scikit-Learn • Pandas •

Matplotlib

PROTOCOLS:

• CAN • Modbus • Bluetooth

TEACHING EXPERIENCE

• Introduction to C programming

• Software Foundations I - Programming in C++

• Software Foundation II

AREAS OF INTEREST

• Machine Learning

• Internet of Things

• Embedded Systems

• Artificial Intelligence

EXPERIENCE

ARUBA NETWORKS, HP ENTERPRISE | SOFTWARE ENGINEERING INTERN

June 2019 - Present | Santa Clara, USA

- Working as a part of the R&D team that works on Software for Campus Switching.
- Developing efficient algorithms in C for the central database of an custom-operating system.

ROTORK CONTROLS | EMBEDDED 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

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.

PURCHASE PREDICTION BASED ON AMAZON REVIEWS | UCSD

- Built a model based on Cosine Similarity to predict the purchase of item based on popularity with an accuracy of 65%

FIRMWARE FORWARDING | Rotork Controls

- Developed and maintained firmware in C to transmit the common communication stack riding on CAN and Bluetooth.
- Developed scripts in Python for efficient debugging of chunks of data.