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++ • Pvthon

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 I 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 I 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.