PRABHNOOR SINGH CHAWLA

prabhnoorsinghchawla.github.io/

B.S IN COMPUTER SCIENCE

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SKILLS

Java • Python • C++ • C • HTML • CSS • JavaScript • Node.js • MySQL • Linux • Git • AWS • Express.js • npm • Keras

EDUCATION

UNIVERSITY OF WISCONSIN-MADISON

GPA: 3.6

Madison, WI

B.S. COMPUTER SCIENCE

EXPECTED GRADUATION: AUG 2020

Relevant Coursework:

- Data Structures
- Algorithms
- Artificial Intelligence
- Operating Systems
- Data Management for Data Science
- Computer Networks
- Object Oriented Programming
- Cryptography
- Machine Organizations
- Multivariable Calculus
- Linear Algebra
- Discrete Algorithms
- Human-Computer Interaction

EXTRACURRICULAR

Wisconsin Robotics - Autonomy and Simulations team

Wisconsin School of Bhangra - Competitive Dance Team

EXPERIENCE

DATA SCIENCE INTERN

Torq Labs, Madison, WI

May 2019 - August 2019

- Analyzing data coming from motion sensors in Torq Smart Leggings and delivering performance metrics using Python
- Hosting the product on Amazon Web Services (AWS) to scale the users and store data (S3, EC2, Lambda)
- Classifying the activity of the user using Machine Learning Algorithms and rating the user's performance on a metric scale

SOFTWARE TECHNOLOGY TRAINER

UW-Madison, Software Training for Students

Sept 2018 – Present

- Teaching programming workshops to students in Python and JavaScript for Software Learning and Technology Training
- Developing curriculum modules in HTML, CSS and JavaScript and assisting with the integration of technology in academic classes
- Assisting students with one-on-one consultations in data analysis primarily in SQL and VBA

WEB DEVELOPMENT INTERN

UW-Madison, Division of Information Technology

May 2018 – August 2018

- Developing websites for custom Technology Workshops using HTML, CSS and JavaScript
- Working with the Web Development and Programming team to build an Intro to Coding workshop in Java
- Building a no-coding website development workshop which focuses on Wordpress

PROJECTS

STOCKS PRICE PREDICTOR

Developed an application which predicts the closing stock price for different companies using Machine Learning. The application is developed in Python using an artificial recurrent neural network called *Long Short Term Memory (LSTM*). Key libraries used: *Keras (Tensorflow), sklearn, numpy and pandas*

INSTAEATS

Developed a web scrapping application which can look for any food at a location using Instagram's tag feature. Technologies used: HTML, CSS, JavaScript, Node.js, Express, Puppeteer

N-GRAM CHATBOT

Implemented a chatbot in Java by generating sentences from the Wisconsin AI100 Rejoinder Corpus (WARC) using *n-gram* language models and Principle Component Analysis (PCA)

TWITTER SENTIMENT ANALYSIS

Implemented a program in Python that determines the mood of communication on twitter based on set of tweets. The program estimates the sentiment associates with individual tweets and then update the library by estimating the unknown terms