




# PRABHNOOR SINGH CHAWLA

[prabhnoorsinghchawla.github.io/](https://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 • Bootstrap

## EDUCATION

UNIVERSITY OF WISCONSIN-  
MADISON

GPA: 3.6

Madison, WI

B.S. COMPUTER SCIENCE

EXPECTED GRADUATION: DEC 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