

# Mohit Soni

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## Work Experience

### Cornell University

Researcher

Ithaca, WA

Nov 2023 - Present

- Mentored by Professor Madhur Srivastava as part of the Signal Science Lab
- Developing a computer-vision based model to discern flaws in the techniques employed by cricket batsman through video analysis
- Crafted an innovative algorithm for video segmentation, employing the Structural Similarity Index metric

### Remotasks

Independent Contractor

Remote

Nov 2023 - Present

- Response for reviewing and coding computer science tasks, earning based on accuracy of submissions
- Simultaneously managing 12 projects involving Java, Python, JavaScript, C#, C++, SQL, PHP, etc.
- Successfully completed 70+ tasks maintaining a high accuracy

### University of Washington Seattle

Researcher

Seattle, WA

Feb 2022 - Sep 2022

- Mentored by University of Washington Seattle Data Science Professor Sundar Srinivasan
- Collected data of 1200+ matches through Kaggle & by web-scraping ESPN CricInfo website with Python
- Found probability of Cricket batsman getting out using length/speed/etc. of ball
- Trained and hyperparameter tuned Random Forests & Neural Networks
- Wrote 9-page research paper addressing my approaches and results

### SparkSIP

Machine Learning Intern

Remote

Jun 2022 - Sep 2022

- Classified DNA electrical signatures to their DNA code using Random Forest models, Neural Networks, and SVM
- Presented progress to 2 University of Washington Seattle Professors using PowerBI
- Wrote in-depth research paper summarizing my methods and results

### Project Sidewalk - Makeability Lab at the University of Washington Seattle

Web Development & Machine Learning Intern

Seattle, WA

Apr 2022 - Sep 2022

- Fixed 15-20 bugs involving JavaScript, Scala, CSS, and HTML
- Managed GitHub repository with a 40-member team
- Cleaned data using Excel & Python and presented insights to computer vision team

## Skills

Web Development: Bootstrap, React, Streamlit, EJS, Flask, Node.js, Express.js, Django, SQL, MongoDB  
Data Science: Python, PowerBI, Pandas, Numpy, Tensorflow, Scikit-learn, Matplotlib, Plotly  
Additional: Java, C++, C#, Visual Studio Code, Jupyter Notebooks, Google Colab, Kaggle

## Projects

### Weakness Detector Research

*Pandas, Numpy, Scikit-learn* <https://tinyurl.com/mrxr95rr>  
Cricket application capable of finding weaknesses of cricket players based on past performances using Random Forest ML model with accuracy of 90%

### ML Model Insights App

*Streamlit, Pandas, Numpy, Matplotlib* <https://algo-insights.streamlit.app/>  
Application that allows users to quickly evaluate multiple ML models on an uploaded/chosen dataset both numerically and visually without writing any code

### Morning Star Web Scraping Website

*Flask, SQLite, Selenium* <https://tinyurl.com/mrx9mvya>  
An application that scrapes morning star to find data corresponding to the saved tickers in the database, inputted by the user. The website allows users to add/delete tickers and refresh the displayed data.

## Valuable Courses

**Machine Learning Specialization (Coursera)** Learned ML algorithms like Gradient Descent, models such as Neural Networks, and Dimensionality Reduction principles, using multivariate calculus Aug 2022

**The Complete 2022 Web Development Bootcamp (Udemy)** Gained hands-on expertise in frontend development (Bootstrap, React), backend development (Node.js, Express.js, EJS), and databases (SQL, MongoDB, Mongoose) Dec 2022

## Education

### Cornell University

Computer Science in the College of Engineering, GPA - 3.87

Ithaca, NY

May 2026