

# Harsh Mahajan

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## EDUCATION

### MS Computer Science

University of Utah

Expected - May 2024

Salt Lake City, US

- **Relevant Coursework:** Machine Learning, Visualization for Data Science, Data Mining
- **Teaching Assistant** - Introduction to Data Science

### BE Information Technology

Savitribai Phule Pune University; GPA: 9.0 / 10

May 2020

Pune, India

## SKILLS

**Languages :** Python, Java, C++, JavaScript, HTML/CSS

**Database :** MySQL, MongoDB

**Framework :** Django, Flask, TestNG, Selenium

**Tools :** Git, Tableau, D3.js, Excel

**Python libraries :** Numpy, Pandas, Seaborn, Scikit-Learn

**Statistics :** A/B Testing, Inferential/Descriptive

## EXPERIENCE

### Accenture

Dec. 2020 – Jun. 2022

Application Development Associate

Pune, India

- Developed and maintained automated test scripts yielding a 40% increase in the efficiency of test execution. (*Java, Selenium WebDriver, TestNG, Apache POI*)
- Co-developed Object Repository for Web UI Elements reducing code redundancy and improving test maintenance. (*Page Object Model*)
- Developed test scripts to automate desktop applications and integrated those scripts with web automation scripts to streamline the whole process. (*VBScript*)

### Netlux Systems Pvt Ltd

Aug. 2019 – Jun. 2020

Software Developer Intern

Pune, India

- Assisted in developing behavior-based ransomware detection technique that detects 90% of ransomware attacks. (*C#, .NET*)
- Published a research paper about the novel technique. Link - [Signature-less ransomware detection and mitigation](#)

## PERSONAL PROJECTS

### Wafer Fault Prediction | Python, Machine Learning(K-means, XGBoost, Random Forest), Flask

- Developed a flask application that predicts the probability of a wafer being faulty with over 90% accuracy using XGBoost and Random Forest model.
- Implemented a "cluster-then-predict" methodology that clusters data and train classification models for each cluster, thus improving the model's accuracy.
- Code - [GitHub - Wafer fault prediction](#)

### Light-weight Machine Learning Library | Python, Numpy, Pandas

- Developed a light-weight machine learning library from scratch using Python. Implemented various classification as well as regression algorithms such as- Tree-based, Ensemble, SVM, Logistic Regression, Linear Regression, and Artificial Neural Network.
- Code - [GitHub - Machine Learning Library](#)

### Flipkart Review Scraper | Python, Flask, BeautifulSoup

- Data Mining tool to collect reviews and ratings of products available on Flipkart E-commerce website
- Code - [GitHub - Flipkart review scraper](#)

### Cricket Data Visualization | JavaScript, D3.js, Web Scraping

- Scraped data from ESPN Cricinfo website and developed a visualization tool using D3.js for in-depth analysis of each game of cricket.
- Code - [GitHub - Cricket data visualization](#) Live project - [Cricket-data-visualization](#)