

ATHARVA CHIPLUNKAR

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EDUCATION

Master of Science, Computer Science

Rochester Institute of Technology | Rochester, NY

Expected December 2024

Relevant Coursework – Advanced OOP, Algorithms, Big Data Analytics, Machine Learning, Computer Vision, Cloud Software Systems, Non-Relational Databases

Bachelor of Engineering, Computer Engineering

GPA: 3.4/4

University of Mumbai | Mumbai, India

May 2022

Relevant Coursework – Data Structures, Operating System, DBMS, Computer Network, Data Warehousing, Cloud Computing, Web Development, Mobile App Development

SKILLS

Languages: Java, Python (Matplotlib, NumPy, Pandas, Scikit-learn), SQL, JavaScript, CSS, HTML, C/C++, XML, JSON, YAML

Frameworks & tools: ReactJS, MUI, Git, Selenium, TestNG, Maven, Docker

AWS Service: EC2, S3, SNS, SQS, Terraform, DynamoDB, VPC, CloudFormation, ECS, API Gateway

Databases: MySQL, PostgreSQL, MongoDB; Familiar with NodeJS

Software: MS Office, Google Colab, GitHub, GitLab

PROFESSIONAL EXPERIENCE

CS Graduate Grader (Algorithms) | Rochester Institute of Technology

January 2024 - Present

Tech Stack – Python, SML

- Supported **30+ students** in academic tasks and assignment evaluations, contributing to measurable improvement in student learning outcomes.
- Leading review sessions, addressing student questions, resulting in the reinforcement of key concepts among students.

Software Engineering Intern | Getinge

May 2023 – August 2023

Tech Stack – Selenium, Java, Maven, TestNG

- Conducted an in-depth analysis of Selenium-based AI tools, enhancing **test automation** capabilities and efficiency.
- Integrated the tools into an existing framework, minimizing the need to build a new one.
- Drove results through testing strategies, including **functional** and **non-functional** assessments, ensuring evaluation of AI tool performance and efficiency across diverse testing scenarios.
- Partnered with AI tool companies**, extracting valuable insights that significantly refined team efficiency and expanded testing capabilities.

Software Developer Intern | KubixSquare

August 2021 - October 2021

Tech Stack – ReactJS, GIT, JavaScript, CSS, MUI

- Led a 5-member team** in implementing an **agile methodology** for streamlined project management.
- Enhanced team collaboration and reduced errors by leveraging **GitHub** for version control and code reviews.
- Developed a user-centric **front-end** interface that met all project specifications and increased user satisfaction scores by **45%** as evidenced by user surveys.

PROJECTS

Movie Catalog Using React | Personal Project

ReactJS | API | MUI | CSS

- Engineered a web application with comprehensive involvement in **full stack development** and **end-to-end project management**.
- Utilized **TMDB APIs** to fetch a dataset of **over 1000 entries daily**, ensuring an active information pool.
- Implemented features like search, genre filtering, and sorting, enhancing user experience and functionality.

Student Attention Detection System | Academic Project

OpenCV | Python | Dlib

- Implemented **facial recognition** and HOG-based feature extraction for online proctoring, ensuring real-time monitoring and delivering alerts for enhanced online class integrity.
- Achieved a high accuracy of **79%** in real-world scenarios by testing under varying conditions, ensuring reliable detection.
- Enhanced the system's versatility by integrating with popular video conferencing tools such as Google Meet, Zoom, and MS Teams, enabling attention-related metrics for each participant and generating summary reports for meeting hosts.

Comparative Analysis of Bitcoin Price Prediction | Research Project

LSTM | ARIMA | Linear Regression

- Researched and implemented **ML models**, achieving highly accurate forecasts in volatile Bitcoin markets.
- Conducted a comparative analysis, identifying ARIMA and Linear Regression as the most accurate models with **82%** and **80%** accuracy, respectively.
- Utilized Streamlit for **front-end development**, facilitating user-friendly interaction with machine learning models for Bitcoin price prediction, and enhancing accessibility and usability for stakeholders.