Atharva Atul Joshi

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EDUCATION

Indiana University, Bloomington, Indiana.   August 2023 – May 2025
Master of Science in Computer Science.
Relevant Coursework: Elements of Artificial Intelligence, Applied Algorithms, and Applied Machine Learning.

Mumbai University, Mumbai, India.   August 2019 – June 2023
Bachelor of Engineering in Electronics & Computer Science.   *GPA: 3.9/4*
Relevant coursework: Data Science, Artificial Intelligence, Design and Analysis of Algorithms, Automated Software Engineering, Computer Networks, Data Structures and Algorithms, Automata Theory, Statistics, and Linear Algebra.

TECHNICAL SKILLS

- Programming: Python, Java, JavaScript, Kotlin, C++, C, Haskell, Bash.
- Web Development: React, HTML, CSS, Bootstrap, JSON, XML, NodeJS, PHP, Express.js, Flask, Django.
- Databases: SQL, MongoDB, PostgreSQL, Firebase.
- Libraries and Frameworks: NumPy, Pandas, Matplotlib, Seaborn, scikit-learn, TensorFlow, OpenCV, Tableau, Pickle.
- Other tools: Git, Jira, AWS, Junit, Selenium, Docker, REST APIs, Machine Vision, Jenkins, Visual Studio, CAD.

EXPERIENCE

Web Development Intern   August 2022 – June 2023
Eugen Printing and Packaging   *Pune, Maharashtra*
- Revamped the company's website using HTML, CSS, and JavaScript on GitHub platforms, creating a visually captivating and user-friendly interface. Resulted in a dynamic platform that effectively showcased and sold the company's products, driving a 30% increase in customer account creations.
- Demonstrated exceptional troubleshooting expertise by swiftly identifying and resolving web application issues, achieving a 100 percent efficiency rate through code optimization and enhancements.
- Pioneered a comprehensive website modernization initiative, delivering a significantly enhanced user experience and incorporating SEO optimization strategies. This resulted in a remarkable 12% increase in unique website visits.
- Actively participated in daily scrum meetings, actively contributing to task prioritization, progress reviews, and the identification and resolution of obstacles. This collaborative approach played a pivotal role in ensuring the timely and efficient delivery of software projects within tight deadlines.

PROJECTS

LinkedIn Profile Scraper
- Developed an automated web scraper using Node.js and Selenium, extracting data from 1,000+ LinkedIn profiles.
- Reduced manual effort by 95% and processing time by 50%, enhancing data accuracy and efficiency.
- Implemented a React front-end for user-friendly profile URL input and data visualization.
- Technology: React, Node.js, Express.js, CSS, JavaScript, HTML, Selenium.

Movie Recommendation, Streaming, and Booking System using Machine Learning
- Modeled a system with Machine Learning to predict movies based on user preferences with 99.9 percent accuracy using content, collaborative filtering methods, and Convolutional Neural Networks (CNN) a Deep Learning algorithm.
- Created a web application and an app using React which takes inputs from the user for booking a preferred movie in a nearby theater. Technology: MERN stack, CNN.

Panorama from Satellite Imagery using Distributed Computing
- Images clicked using drones, provided by ISRO were stitched together using distributed public compute nodes, effectively bringing down processing time exponentially. Accomplished an exponential reduction in processing time, processing imagery 10 times faster than previous methods, thereby enhancing efficiency and productivity.
- Technology: PHP, C++, Java, Python.

Drag-n-drop machine learning learning environment
- Developed a user-friendly drag-and-drop tool, akin to Scratch, for effortlessly constructing machine learning pipelines.
- Included in-depth tutorials for each concept, resulting in a 30% increase in user comprehension and a 20% reduction in the time required to grasp machine learning principles.
- Technology: Python, JavaScript

Malaria Disease Prediction using Machine Learning
- Designed a model with different Machine Learning algorithms such as Logistic Regression, K means, Support Vector Machines, Decision Trees, Random Forest, and Naïve Bayes to identify whether a human cell is infected with Malaria or not. Attained an outstanding accuracy rate of 95% in accurately identifying the infected cells.
- Technology: Android Studio, Kotlin, Firebase, Google Maps API, YouTube API, and Google Calendar API.

PUBLICATIONS

- Work in Progress to be published by International Journal of Science and Research (IJSR) Publishing. Tech: ML, Python, NLP, MERN, AWS (July '23)