



ATHARV PATWARDHAN

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WORK EXPERIENCE

Software Developer Intern

Independence Education, Philadelphia, PA

June 2024 – Aug 2024

- Successfully designed and developed a comprehensive data analytics dashboard for an Ed-Tech startup. Utilized a robust tech stack including TypeScript, React.js, Chart.js, PostgreSQL, and Node.js to create an intuitive and user-friendly interface. Implemented dynamic data visualization features to enhance user engagement and learning outcomes.
- Created a sophisticated chatbot prototype using the GPT-3.5-turbo model and LangChain. The chatbot was designed with a Retrieval-Augmented Generation (RAG) architecture to provide accurate and contextually relevant responses. This innovation significantly improved user interaction and support within the application.
- Optimized application performance by implementing efficient coding practices and leveraging modern development tools. Ensured the application was scalable and maintained high performance under varying loads.

Software Engineering Intern

VIIE, Mumbai, IN

Dec 2022 – July 2023

- Spearheaded the development of the official VIIE Web Application utilizing cutting-edge technologies including React.js, Next.js, and Tailwind CSS to ensure scalability, performance, maintainability, and provide a rich user experience.
- Managed a 15-member cross-functional (Frontend, Backend, Database, UI/UX) team and fostered collaboration between developers and stakeholders.
- Pioneered AGILE project management techniques to navigate evolving project demands, optimizing resource allocation and adjusting plans, ensuring project success amidst dynamic challenges and shifting priorities.

Machine Learning Intern

Feynn Labs, Bangalore, IN

May 2022 – July 2022

- Piloted the successful implementation of a diverse array of Machine Learning Models, including advanced techniques like LSTM, Linear Regression, Multiple Linear Regression, and Support Vector Regression, effectively solving complex real-world challenges and driving tangible business outcomes.
- Took on multifaceted responsibilities encompassing market analysis, data exploration, and comprehensive report generation, delivering actionable insights that empowered stakeholders to make informed decisions and drive strategic initiatives forward. This involvement exemplified a holistic approach to data-driven decision-making and a commitment to delivering high-impact results.

EDUCATION

Rutgers University

2025

- **Bachelor of Science in Computer Science + Computational and Applied Mathematics.**
- Relevant Coursework: Intro to Data Science, Data Visualization, ML Principles, Data Structures and Algorithms, Cloud Computing, Operating Systems, Linear algebra, Discrete Math, Statistics, Calculus I & II.

PROJECTS

Social Verse – A Full Stack Social Media Application.

- Spearheaded the conception and development of Social Verse, a comprehensive full-stack social media platform engineered to rival Instagram's functionality and user experience.
- Engineered a seamless user authentication experience by seamlessly integrating the Google OAuth API and using REST APIs for real-time communication from server to database.
- Elevated user engagement by introducing advanced filtering options. By enabling users to categorize and curate their content consumption experience across diverse categories such as Cars, Fitness, Humor, and beyond.

Autonomous Driving Model.

- Implemented a Convolutional Neural Network for an Autonomous Driving Model, based on Nvidia's End-to-End Learning for Self-Driving Cars Paper.
- Utilized Udacity's Driving Simulator to Train and Test the model in a simulated driving environment.
- Achieved 98% accuracy on the model and a loss metric of 0.05, when trained on 50 epochs.

ACHIEVEMENTS AND AWARDS

- Recipient of Philadelphia Philanthropic Society for Information Management Foundation Inc. (PHISIM) Award.
- 2nd Place in VSIT Coding Competition 2022.

Technical Skills

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- **Languages:** Python, Java, JavaScript, Typescript, C++, HTML, CSS
 - **Database:** MySQL, Oracle SQL Server, MongoDB, SQLite
 - **Other Tools and Frameworks:** React.js, Vite.js, Next.js, Tailwind CSS, Node.js, NPM, Redux, Git, Linux, Heroku, Netlify, Vercel, Postman, Spring Boot, Flask, Data Structures, Algorithms, JSON, REST API, Microservices, Sanity CMS, Langchain, Pytorch, keras, Scikit-learn
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