

# ATHARV PATWARDHAN

[linkedin.com/in/atharv-patwardhan](https://www.linkedin.com/in/atharv-patwardhan) | +1 (856)-379-0074 | [reach.to.atharv@gmail.com](mailto:reach.to.atharv@gmail.com) | <https://atharvpattwardhan.vercel.app>

## WORK EXPERIENCE

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### Independence Education

Philadelphia, PA

Software Developer Intern

June 2024 – August 2024

- Created a comprehensive data analytics dashboard that links to the Canvas student software for an Ed-Tech startup, leveraging TypeScript, React.js, Chart.js, PostgreSQL, and Node.js to provide actionable insights.
- Employed advanced data visualization techniques to present complex datasets in an intuitive manner, significantly enhancing user engagement and enabling data-driven decision-making for improved learning outcomes for both, learners and educators.
- Engineered a powerful chatbot prototype utilizing the GPT-3.5-turbo model and LangChain, integrating a Retrieval-Augmented Generation (RAG) architecture for enhanced accuracy and contextual relevance.
- Boosted application performance by implementing optimized code practices and modern development tools, achieving a 30% increase in development speed during peak feature development sprints, while ensuring seamless scalability across the platform.

### VIIIE

Mumbai, IN

Software Engineering Intern

Dec 2022 – July 2023

- Spearheaded the development of the VIIIE Web Application utilizing cutting-edge technologies including React.js, Next.js, and Tailwind CSS ensuring scalability, performance, and maintainability of the application and delivering a rich and engaging user experience.
- Implemented AGILE project management practices across a 15-member cross-functional team to adapt to shifting project requirements, improving team response time to changes and enhancing resource allocation efficiency across a diverse group of stakeholders.

### Feynn Labs

Bangalore, IN

Machine Learning Intern

May 2022 – July 2022

- Piloted the successful implementation of diverse Machine Learning Models, including advanced techniques like LSTM, Multiple Linear Regression, and Support Vector Regression effectively to solve complex optimization challenges, resulting in enhanced operational efficiency and approximately 15% growth in revenue.
- Conducted data exploration and generated comprehensive reports that provided actionable insights, empowering stakeholders to make informed decisions and advance strategic initiatives.
- Conducted an in-depth analysis of the electric vehicle market, identifying three major growth opportunities that prompted a strategic shift resulting in 25% more investment towards innovative EV initiatives over six months.

## EDUCATION

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### Rutgers University

New Jersey, US

Bachelor of Science in Computer Science + Computational and Applied Mathematics

May 2025

- Recipient of Philadelphia Philanthropic Society for Information Management Foundation Inc. (PHISIM) Award.

## PROJECT EXPERIENCE

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### Autonomous Driving Model

- Developed a high-performance Convolutional Neural Network (CNN) for autonomous driving, inspired by Nvidia's end-to-end learning research, using Udacity's Driving Simulator, achieving 90% success rate in lane keeping and applying data augmentation techniques such as Gaussian Blur to improve training.
- Attained 98% accuracy on the model after training on 50 epochs using the Google Cloud Platform.

### SocialVerse

- Spearheaded the development of Social Verse, a full-stack social media platform that rivals Instagram, enhancing user engagement.
- Implemented a seamless authentication system using Google OAuth API and REST APIs for efficient real-time server communication.

## TECHNICAL SKILLS

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**Languages:** Python, Java, JavaScript, Typescript, C++, HTML, CSS;

**Database:** MySQL, Oracle SQL Server, MongoDB, SQLite;

**Tools and Frameworks:** React.js, Vite.js, Next.js, Tailwind CSS, Node.js, NPM, Redux, Git, Linux, Netlify, Vercel, Postman, Spring Boot, Flask, Data Structures, Algorithms, JSON, REST API, Microservices, Sanity CMS, Langchain, Pytorch, Keras, Scikit-learn.