

# ATHARV PATWARDHAN

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## Work Experience

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### Independence Education

Philadelphia, PA

Software Developer Intern

Jun 2024 - Aug 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, enhancing user engagement and enabling data-driven decision-making, leading to improved learning outcomes for 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, increasing user interaction and support efficiency.
- 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.

### VIII E

Mumbai, IN

Software Engineering Intern

Dec 2022 - Jul 2023

- Led the development of the VIII E Web Application using React.js, Next.js, and Tailwind CSS, which improved scalability, performance, and maintainability, resulting in a better user experience.
- Directed AGILE software development methodology 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 - Jul 2022

- Implemented diverse Machine Learning Models, including LSTM, Multiple Linear Regression, and Support Vector Regression, to solve complex optimization challenges, resulting in enhanced operational efficiency and approximately 15% growth in revenue.
- Conducted data exploration and generated comprehensive reports that helped stakeholders 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

Bachelor of Science, Computer Science, Computational and Applied Mathematics

May 2025

- Achievements: 3.75/4.0 GPA, Recipient of Philadelphia Philanthropic Society for Information Management Foundation Inc. (PHISIM) Award for Academic Excellence and Chancellor's Merit Scholarship.

## Projects

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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 results.
- Attained 98% accuracy on the model after training on 50 epochs using the Google Cloud Platform.

### AI Job Board

- Developed an AI-driven Job Board leveraging data from US Bureau of Labor Statistics to provide actionable career insights. Integrated a salary prediction model with over 85% accuracy using Random Forest Regression and a user-based collaborative filtering based recommendation system powered by cosine similarity, enhancing suggestions by 30%.
- Implemented an interactive dashboard with streamlit and plotly to visualize key trends such as salary projections, high-demand skills, growing and declining industry sectors, and much more, enabling users to make data-informed career decisions.

### Clash Royale Analytics Dashboard

- Built an interactive analytics dashboard using python and the panel library to efficiently process and analyze over 13 GB of player data from the popular strategy game Clash Royale.
- Leveraged algorithms like K-Means Clustering to uncover insights on metrics such as elixir usage, card usage and other gameplay trends across 20+ arenas, assisting strategic decision making for players.

## Skills

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Python, Java, JavaScript, TypeScript, R, C++, HTML, CSS, MySQL, Oracle SQL Server, MongoDB, SQLite, Git, Spring Boot, Flask, Streamlit, Data Structures and Algorithms, JSON, REST API, Microservices, Tensorflow, Langchain, Pytorch, Keras, Scikit-learn, Numpy, Pandas, Matplotlib, Holoviews, Hvplot, Seaborn, Big Data Algorithms