Akshar Raikanti

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EDUCATION

Purdue University **West Lafayette, IN**
Bachelor of Science, Computer Science **August 2023 – May 2026**
Bachelor of Science, Artificial Intelligence

PROFESSIONAL EXPERIENCE

Veygo Rentals – Car Rental Service **West Lafayette, IN**
Full Stack Developer **August 2024 – Present**

- Led the development and maintenance of the Veygo Rentals website using React, JavaScript, CSS, Bootstrap, and Tailwind, creating a responsive, user-friendly interface for Purdue University students. Implemented real-time inventory tracking, automated booking confirmations, and multi-tiered user access controls. Built a robust back-end with Node.js and Python, integrating Stripe API for secure payments, and utilized Firebase Authentication for user account management.
- Relevant Skills: React, JavaScript, CSS, Bootstrap, Tailwind, Node.js, Python, Stripe API, Firebase Authentication, AWS, Google Firebase, Database Management

Headstarter AI **San Francisco, CA**
Software Engineering Fellow **July 2024 – September 2024**

- Built AI-driven apps for startups, addressed backlog projects, optimized ML models, enhanced UI designs, collaborated with cross-functional teams, and contributed to code reviews and best practices.
- Relevant Skills: Artificial Intelligence, Machine Learning, Reinforcement Learning, Next.js, React, AWS, RAG, Firebase, Natural Language Processing (NLP), Web Development, Software Engineering, API Integration, User Interface Design, and Project Management

TransSIGHT – Data Consulting Firm **San Francisco, CA**
Data Engineering and Machine Learning Intern June 2024 – August 2024

- Developed an end-to-end data pipeline using Apache Airflow, automating data ingestion, transformation, and loading into SQL Server. Managed Docker containers to ensure consistent environments, improving deployment speed. Applied ML models to predict transit demand, improving accuracy. Configured AWS services (S3, MWAA) for scalable, secure data processing. Performed complex SQL queries, and optimized database performance. Created data visualizations for insights and monitoring key metrics.
- Relevant Skills: Python, SQL, Scikit-learn, TensorFlow, Pandas, SQLAlchemy, PyODBC, Matplotlib, Seaborn, Docker, Apache Airflow, AWS (S3, MWAA, IAM), Microsoft SQL Server, PyTest, Redshift

BASF – Agricultural Chemical Solutions **West Lafayette, IN**
Machine Learning Research Intern **August 2023 – May 2024**

- Deliver a statistical approach to approximating competitive market share down at a more granular level. Then leverage such output to compute benchmarking analytics for quantifying the accessible market opportunity relative to our competitors.
- Relevant Skills: Data Cleaning, Data Analysis, Exploratory Data Analysis, Machine Learning, Microsoft Azure Machine Learning, Microsoft Azure, Market Research, Statistics, Microsoft Power BI, Statistical Modeling, Python Programming

PROJECTS

Pantry Tracker App **July 2024**

- Created with React and Next.js for real-time data tracking of pantry items. Used Vercel to deploy application.
- Implemented user authentication and authorization using Firebase Authentication to ensure secure access to each user's data.
- Implemented a camera system to link items with images and using OpenAI image classifcation tools, automatically detected the objects in the image to add to the list of items.

AI Customer Support System **August 2024**

- Engineered a sophisticated AI-driven customer support system utilizing Llama 3.1, Groq AI, Next.js, and AWS, enabling automated, adaptive responses to a wide range of customer inquiries. The system integrates with multiple APIs to enhance functionality and dynamically adjusts to various prompts and inputs, effectively routing specific queries to appropriate services.

AI Flashcard App **September 2024**

- Designed an app with Stripe API payments and Llama 3.1 content to help users study efficiently. Used Firebase and Clerk to store user specific information and authentication.
- Integrated adaptive learning algorithms to customize flashcard difficulty based on user performance and learning speed.

Machine Learning Assisted Professor Tracking App **September 2024**

- Developed an app using RAG using Pinecone, Llama 3.1 through Groq AI, and Vectors to help students choose classes based on professors' past reviews. Devised a weighted review system through Pinecone to recommend professors to students.
- Utilized sentiment analysis techniques to provide deeper insights into professor reviews, helping students make more informed decisions.