Akshar Raikanti

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EDUCATION

Purdue University, College of Science West Lafayette, IN
Bachelor of Science, Computer Science August 2023 – May 2026

- Concentration: Machine Intelligence

Bachelor of Science, Artificial Intelligence August 2023 – May 2026

Relevant Coursework:

- CS 18000 – Problem-Solving and Object–Oriented Programming, CS 18200 – Foundations of Computer Science, CS 24000 – Programming in C, CS 17600 – Data Engineering In Python, CS 19300 – Tools, CS 25000 – Computer Architecture, CS 25100 – Data Structures, CS 25200 - Systems Programming, (Spring 2025), CS 24200 - Introduction To Data Science (Spring 2025)

PROFESSIONAL EXPERIENCE

TransSIGHT San Ramon, 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

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

- Participated in an intensive 7-week AI/ML and software engineering fellowship. Built a personal website with HTML, CSS, and DNS. Created a pantry tracker using React, Next.js, and Firebase for real-time data. Developed an AI customer support system with OpenAI, Next.js, and AWS. Designed an AI flashcard app with Stripe API payments and OpenAI content. Built an AI rating platform using RAG, OpenAI, and vector databases. Completed projects for Startups, focusing on branding, deadlines, and UI. Presented projects to engineers, honing technical communication and presentation skills.
- 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

BASF West Lafayette, IN
Data Science and Machine Learning Intern August 2023 – May 2024

- Purdue University Data Mine Program - Corporate Partners: Approximating Competitor Market Share
- 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 Open AI image classifcation tools, automatically detected the objects in the image to add to the list of items.

AI Customer Support System August 2024 (Estimated Completion Date)

- Developed using OpenAI, Next.js, and AWS to provide automated customer support. The system integrates with various APIs to enhance functionality.
- Leveraged AWS Lambda to create serverless functions that handle high-volume customer queries with minimal latency.

AI Flashcard App August 2024 (Estimated Completion Date)

- Designed an app with Stripe API payments and OpenAI content to help users study efficiently.
- Integrated adaptive learning algorithms to customize flashcard difficulty based on user performance and learning speed.

Machine Learning Assisted Rate My Professor App September 2024 (Estimated Completion Date)

- Developed an app using RAG, OpenAI, and Vectors to help students choose classes based on professors' past reviews.
- Utilized sentiment analysis techniques to provide deeper insights into professor reviews, helping students make more informed decisions.