Vihaan Shetty

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EDUCATION

Purdue University West Lafayette, IN
B.S. in Computer Science, B.S. in Data Science *Exp. graduation Dec. 2026*
- Concentration: Machine Intelligence
- GPA: 3.8/4.0
- Dean's List and Semester Honors – Fall 2023, Spring 2024, Fall 2024, Spring 2025
- Relevant Coursework – Data Structures & Algorithms, Analysis of Algorithms, Data Mining & Machine Learning, Systems Programming, Information Systems, Computer Architecture, Applied Regression Analysis, Linear Algebra

SKILLS

Languages: Python, Java, C/C++, JavaScript, SQL, R, HTML, CSS, TypeScript, Swift
Frameworks / Libraries: TensorFlow, PyTorch, Keras, scikit-learn, PostgreSQL, MySQL, MongoDB, React, Next.js, Express, Redux, Flask, PrismaORM, TailwindCSS, Spring Boot, Maven, Spark, Airflow, Hadoop, Pandas, NumPy, Matplotlib, GGPlot2, React-Native, Expo
Tools: Git, Linux, UNIX, Bash, Docker, Tableau, Vercel, Agile, Scrum, Jira, REST

EXPERIENCE

BNY – Data Masters (Client & Contract) Team Jun. 2025 – Aug. 2025
Software Engineering Intern *New York City, NY*
- Creating AI agent using **RAG** to assist with **time series data** anomaly detection and missing data handling
- Automating data validation and hydration testing with **Apache Spark**, **Hadoop DFS**, and **Airflow** in workflow handling **over 50 billion** client, account, and contract records spanning several different lines of business
- Optimizing **Java Spring Boot** application through reducing boilerplate code by **over 75%** to streamline development process

The Data Mine – Purdue University Jan. 2025 – May 2025
Corporate Partners TA *West Lafayette, IN*
- **Project Manager** overseeing a Data Mine team working with the Management Performance Hub for a research project using **Indiana Criminal Justice Institute** data
- Enforced **Agile** project management framework as **Scrum Master**, acted as liaison between students and corporate mentors to **facilitate lines of communication** and **streamline project progress**
- Mentored students in professional development in addition to a variety of technical skills including **data exploration, data visualization**, and **ML**

The Data Mine – Purdue University Aug. 2023 – May 2024
Undergraduate Researcher *West Lafayette, IN*
- Developed **XGBoost** and **Random Forest** ML models, using advanced play-by-play charting datasets to grade **over 200** NFL and NCAAF quarterbacks on the value of their throws
- Achieved **over 80% grading accuracy** through advanced hyperparameter tuning and feature engineering
- Created **Tableau dashboard** to provide **Pro Football Focus** clients with an interactive visual experience showcasing the grading algorithm's evaluation of quarterbacks transitioning from the NCAA to the NFL

PROJECTS

Workout Tracker | *Next.js, PostgreSQL* April 2025
- Developed **full-stack** web application with **over 20 users** for workout tracking and intelligent monitoring of muscle progressive overload
- Created **RESTful API** supporting OAuth2.0 user authentication and CRUD operations with **multi-user concurrency**, as well as optimized database read/write transactions for **security** and **scalability**

Hackathon Leaderboard | *Next.js, Flask, PostgreSQL* October 2024
- Created full-stack web application for an ML-based Hackathon grading system and leaderboard featured in hackathon with over **200 participants**
- Implemented **RBAC** and OAuth2.0 authentication for admin privileges, designed fully-customizable front-end UI
- Developed **Flask** back-end API for database access and interaction with ML features