

Pratyush Srivastava

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EDUCATION

Bachelor of Science, Computer Science

Graduation: May 2027

University of Cincinnati, Ohio

Related Coursework: Software Engineering, Parallel Computing, OOP, Discrete Structures, AI/ML, Web Dev and Hacking

EXPERIENCE

Student Associate | DPC, UC Foundation | Cincinnati, OH

Sept 2023- Present

- Represented the University of Cincinnati by promoting its initiatives, achievements, and innovations, fostering connections with alumni and supporters.
- Engaged in conversations with over 500 alumni and donors by conducting personalized outreach calls, contributing to over \$10,000 raised in scholarship funds.
- Built personalized engagement strategies to strengthen alumni relationships and improve outreach outcomes.

Embedded Systems Intern | Electrocon | Mumbai, India

May 2024 - August 2024

- Programmed 10+ ESP8266 devices with environmental sensors and integrated MQTT protocol to enable real-time data collection and remote control.
- Built a cross-platform mobile app using React Native, connected to a Supabase backend for user authentication and live device status updates.
- Tested and debugged the system extensively, improving device response consistency across different use cases.

PROJECTS

Real-Time Market Sentiment Analyzer

May 2025

- Developed a multi-platform real-time sentiment analyzer for 50+ companies using live data streams from Twitter, Reddit, StockTwits, and financial news sources.
- Implemented a hybrid NLP pipeline using VADER for short-form social text and FinBERT/LLMs for long-form and domain-specific financial sentiment classification.
- Built a dynamic React + Tailwind dashboard featuring industry-level sentiment cards and managed project planning and sprint execution using Microsoft Azure DevOps

AI Agents | Automation Project

January 2025

- Built and self-hosted AI agents using DeepSeek LLM, automating 6+ workflows with n8n & Make.
- Automated emails, calendar scheduling, chat interactions, and audio transcription, reducing manual effort and enhancing productivity.
- Designed AI-driven workflows to process and analyze conversations, generate summaries, and trigger actions based on contextual insights

Home Loan Approval Prediction Model | Machine Learning Project

May 2024

- Built a machine learning classifier in Python to predict loan approval based on applicant income, credit score, and debt profile.
- Trained and validated the model using a dataset of over 1,500 entries, achieving reliable classification performance.
- Used Matplotlib and Power BI to create interactive dashboards for visualizing approval trends and influencing factors to analyze trends in loan approvals and key influencing factors.

SKILLS

- **Programming Languages:** C++, Python, JavaScript, HTML, CSS, SQL, VBA
- **Technologies:** Pandas, Pytorch, Numpy, React JS, Node.JS, TensorFlow, Git, PostgreSQL, MongoDB, Power BI
- **Concepts:** Data Science, Machine Learning, Data Visualization, Software Development, Embedded Systems

ACTIVITIES AND INTERESTS

Clubs: Bearcats Motorsports, Investment Club, Robotics Club,

Interests: Formula 1, Cars, filmmaking, Stock Trading, IoT devices, Building PCs, Piano, Chess

Available for Co-op Fall 2025