Piyush Sonawane

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Education

M.S. in Computer Science Aug 2025 – Expected May 2027
University of Illinois, Chicago
Relevant Coursework: Computer Algorithms, AI, Database Systems

B.Tech. in Computer Science and Engineering Jul 2019 - Jun 2023
MIT-WPU, Pune — **GPA: 3.84**
Relevant Coursework: DS & Algorithms, OOP, DBMS, Software Engg., ML

Skills

Languages	C++, JavaScript, TypeScript, SQL, Python
Frameworks	React.js, Node.js, Sass, ML, Jest, Flask, Retool
Databases	PostgreSQL, MySQL
Tools	AWS (EC2, RDS, S3, ECR), Docker, Git

Work Experience

Full-stack Web Engineer — Launch Ventures Sep 2023 - Jul 2025

- Designed, built, and deployed a scalable investment-management web platform using React, Tailwind CSS, Node.js, and PostgreSQL to support portfolio management and custom business logic for equity, futures, and options workflows.
- Led end-to-end migration of the portfolio tracking platform from Retool to a custom web application, significantly improving application performance, reliability during trading hours, and accessibility for financial analysts.
- Engineered advanced modules including a client dashboard, contract notes, downloadable reports, and AUM fees computation; implemented backend APIs for average buy price calculation and automated trade cron jobs, cutting trade-processing time by 4 seconds per transaction.
- Enhanced a web-based task-tracking platform by improving the UI and implementing encrypted user data management, leveraging Vue.js, Python, Django, AWS, Docker, and Sentry.io.
- Delivered data insights by performing advanced analytics in Python, Pandas, and NumPy, accelerating decision-making cycles from days to hours.

Machine Learning Intern — Capgemini Aug 2022 - Dec 2022

- Developed and containerized YOLO-based computer-vision services on Microsoft Azure, automating training, testing, and deployment; built Flask APIs, validated endpoints with Postman, and added a feedback loop to improve accuracy.
- Managed and annotated large image and video datasets with CVAT, increasing detection accuracy by 10%.

Projects

Job Interview Analysis using Multimodality Jan 2023 – May 2023

- Developed an integrated platform utilizing CNN models for video and Random Forest classifiers for audio, applying late-fusion strategies to deliver holistic candidate feedback in mock interviews and resume screening scenarios.

Hate Speech Detection Using ML Dec 2021 - Feb 2022

- Collected and cleaned a dataset of 30,000 tweets using Tweepy, designed text preprocessing, and developed SVM, Naive Bayes, Logistic Regression, and Decision Tree models to classify hate vs. neutral speech.
- Achieved a classification accuracy of 94.11% using Logistic Regression, outperforming other classifiers.

Criminal Record Management System Aug 2021 – Oct 2021

- Implemented a secure full-stack web application with PHP, MySQL, and robust role-based access control, reducing manual record retrieval time for police users from hours to minutes.
- Enabled secure online access to critical data, improving operational efficiency and administrative transparency in public sector workflows.