

# Anamay Tripathy

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## Summary

Aspiring Python Engineer with a strong foundation in data science and full-stack development. Automated KPI dashboards using Python and SQL, significantly reducing reporting time, and developed REST APIs to enhance CRM user engagement. Eager to leverage technical expertise in Python to drive impactful solutions in software engineering.

## Education

### Manipal Institute of Technology

Jul 2023 - May 2027

B.Tech, Data Science Engineering (GPA: 7.6/10 (after 4th semester))

Manipal

- **Coursework:** Machine Learning, Deep Learning, Data Analytics, Algorithms, Information Security, Computer Networks, Operating Systems, Data Visualization, Data Understanding, Data Plotting, High Performance Computing, Object-Oriented Programming, Data Structures, Python Programming, Database Management Systems, Cloud Computing

## Experience

### Intellect Design Arena | Data Analyst and Web Development Intern

May 2025 - Jul 2025

- Automated KPI dashboards using Python and SQL, reducing reporting time by 12+ hours/week.
- Developed REST APIs with Node.js, increasing CRM user engagement by 22%.
- Improved a React-based front end enabling field agents to collect EMIs and dues seamlessly from urban and rural customers, resulting in a 30% increase in data collection efficiency and reducing errors by 20%.

### YaanBarpe | TechnicalHead

May 2025 - Present

- Engineered a multilingual cultural tourism platform using MERN stack, targeting 3,000+ monthly users (YaanBarpe).
- Digitized 40+ heritage stories with CMS integration, enhancing accessibility across three languages.

### E-Cell MIT | Executive Member

Oct 2024 - Present

- Developed E-Cell website using React and Firebase, enabling 5,000+ registrations for MES 2025 (E-Cell MIT).
- Networked with venture capitalists at Pitch Tank, securing partnerships for startup events.

### MIT Student Council | Class Representative

Aug 2023 - May 2024

- Represented over 160 students by efficiently resolving academic issues with faculty, which led to a 20% faster response time and increased student satisfaction rates.

## Projects

### CrimeConnect-MERNStack, Supabase

Oct 2024 - Present

- Engineered an FBI-inspired case management dashboard, reducing case processing time by 40%.
- Implemented a drag-and-drop pin board for visual evidence mapping and role-based access control.
- Utilized Vite and TailwindCSS for responsive UI, ensuring 99% uptime.

### VARtificial Intelligence – Python, Pyodide, Flask, React

- Developed a machine learning-based football predictor using XGBoost and Pyodide, achieving 89% accuracy.
- Engineered features like shot efficiency, integrated via a Flask REST API and visualized on a React dashboard.
- Optimized in-browser ML inference with Pyodide, reducing prediction latency by 30%.

### HackOps - MERN Stack, Docker

- Built a gamified cybersecurity training platform with 25+ challenges, improving user cyber-awareness by 35%.
- Integrated regex-based password validation and a leaderboard system, engaging 150+ learners.
- Deployed via Docker for scalability, achieving 100% deployment success.

### Flora Fight Frenzy – JavaScript, Canvas, WebGL

- Created a Plants vs. Zombies-inspired tower defense game, achieving 90% UI fidelity and a 4.8/5 rating.
- Implemented AI-driven zombie behavior and sun-collecting mechanics, maintaining 60 FPS.
- Planned WebGL upgrades for enhanced graphics and modular code design.

## Technical Skills

- **Languages:** Python, JavaScript, C++, SQL, HTML/CSS
- **Frameworks Libraries:** React, Flask, Node.js, Express.js, TailwindCSS, Scikit-learn, TensorFlow, PyTorch, XGBoost, Pandas, NumPy, Matplotlib, Seaborn
- **Tools Platforms:** Git, Docker, AWS, GCP, Jupyter, Postman, MongoDB, Supabase
- **Domains:** Machine Learning, Deep Learning, Data Dashboards, Web Security, API Development

## Certificates

- **Meta Data Analytics:**Meta
- **Johns Hopkins Machine Learning:**Coursera
- **BERT Sentiment Analysis:**Coursera
- **IoT:**IIT Bombay
- **IBM Generative AI:**IBM
- **Google Data Foundations**
- **Vskills ML/AI Certification**