Yash Potdar

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Summary

I am a highly motivated AI and Data Science student specializing in machine learning, deep learning, and web development. I have hands-on experience leading technical projects and events, where I applied my expertise in Python, AI, IoT, and Linux systems. With a strong foundation in software development and a passion for solving real-world problems, I strive to drive innovation in the AI/ML domain.

Education

B. Tech, **AISSMS Institute of Information Technology**,   Nov 2022 - 2026(expected)
Artificial Intelligence & Data Science

- GPA: 8.06/10
- **Coursework:** Artificial Intelligence, Deep Learning, Machine Learning, Discrete Mathematics, Statistics, Power BI, Computer Networks, Database Management, Software Engineering, Ethical Hacking, Web Technology, Data Science, Tableau

Experience

Google Developer Groups (GDG), AL/ML Member   Pune, MH
    Sept 2024 - Present

- Selected as a member of the **AI/ML team in the GDG on campus**, collaborating with peers on projects, workshops and events centered on artificial intelligence and machine learning.
- Engage in community-driven learning initiatives, such as **contributing to open source projects and participating in hackathons**.

Artificial Intelligence Student Association, Technical Secretary   Pune, MH
    Sept 2024 - Present

- Developed a **cutting-edge AI-IoT system** utilizing Arduino Uno and Python for a reveal mechanism, streamlining processes and increasing efficiency.
- Led the **implementation of AI-driven events** within the association, incorporating the latest industry trends and technologies.

AI Adventures, ML Intern   Pune, MH
    Jul 2024 - Aug 2024

- Led weekly **knowledge-sharing sessions on emerging trends in AI/ML**, resulting in a **team-wide skill enhancement of 30%** and improved project performance.
- Implemented a **mentorship program for junior interns,** resulting in a **40% increase in project completion rate** and overall team morale.

Artificial Intelligence Student Association, Technical Executive   Pune, MH
    Sept 2023 - Sept 2024

- Led a **hands-on workshop for 70+ students** on Python programming, introducing key concepts and practical applications that resulted in an **increase in student proficiency by 50%.**
- Assisted in the **planning and execution of a national hackathon** held at AISSMS IOIT, contributing to a **successful event that attracted over 600+ participants** and resulted in the **development of 25+ innovative projects.**

Projects

Redactify   GitHub Link

- Developed a **CNN-based deep learning model** to detect and redact PII from government documents with **96% accuracy.**
- Built a secure system for scanned document anonymization, safeguarding confidential data.
- Leveraged **Python, TensorFlow, and OpenCV** to optimize image processing and model training, **improving efficiency by 40% and cutting processing time by 50%.**

Medicine Reminder App   GitHub Link

- Developed a medicine management app using **Google Gemini API and LangChain** for **AI-driven medication scheduling and reminders.**
- Built secure user authentication, scheduling, and interactive visualizations, **boosting user engagement by 30%.**
- Enhanced accessibility with voice features like speech recognition and text-to-speech for hands-free use.
- Streamlined PDF data extraction and database management with Python and SQLite, reducing manual input by 40% and speeding up data retrieval by 25%.

Flappy Bird AI using NEAT   GitHub Link

- Developed a fully functional Flappy Bird game driven by AI, leveraging NEAT and PyGame within Python; trained the neural network to achieve an impressive **95% success rate in gameplay simulations.**
- Configured N**EAT with a population size of 100, a fitness threshold of 1000,** and "max" fitness criteria for performance optimization.
- Utilized **Matplotlib and Graphviz** to visualize training progress and fitness statistics, enhancing interpretability.
- **Modularized code** into 3 components: (1) game logic, (2) NEAT configuration, and (3) visualization tools.

Technologies

Languages: Python, JavaScript, HTML/CSS, C/C++, SQL, TypeScript, PHP

Web Technologies: Node.js, React.js, Next.js, Tailwind CSS, Flask, Django, MERN Stack

Machine Learning: TensorFlow, OpenCV, Scikit-learn, Keras, PyTorch, Deep Learning, Reinforcement Learning

Other Technologies: Linux, Version Control (Git), Ethical Hacking, Power BI, Tableau