Yash Potdar
AI&ML Engineer

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Education

B.Tech in Artificial Intelligence & Data Science 2022 - 2026 *(expected)*
AISSMS's Institute of Information Technology Pune, MH, India
- **GPA**: 8.02/10.00
- **Coursework**: Artificial Intelligence, Machine Learning, Deep Learning, Discrete Mathematics, Statistics, Power BI, Computer Networks, Ethical Hacking, NLP, Database Management, Software Engineering, Web Technology, Cloud Computing, MLOps, Data Science, Pattern Recognition

Projects

Gen-AI-Powered Twitter Automation Bot

2024/12 - Present GitHub Link

- Engineered a **fully automated Twitter account** using Python, Google's Generative AI, and Twitter API, **generating unique tweets** with a customized personality profile.
- Achieved **80% content uniqueness** through advanced **SBERT fine-tuning, cosine similarity** checks, coupled with secure **OAuth-based authentication** and **automated Selenium workflows** for seamless operation.
- Streamlined usability with **detailed documentation and robust JSON-based storage**, ensuring persistent tweet history and easy customization for developers.

Redactify

2024/08 - 2024/08 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

2024/10 - 2024/10 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.**

Flappy Bird AI using NEAT

2023/09 - 2023/09 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 **NEAT 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.

EXPERIENCE & INTERNSHIPS

BnB Developers | Software Intern   2025.03-Present
- Engineered an **CUDA-based face recognition** software for **60000+ images**

AI Adventures | AI&ML Intern   2024.07 - 2024.08
- 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.

ACADEMIC SERVICES & VOLUNTEERING

Guest Lecturer: *Data Analytics Training*

Guest Speaker: *LATEXand Paper Writing Workshop*

AI/ML Member: *Google Developer Groups,*

Technical Secretary: *Artificial Intelligence Students Association,*

Technical Executive: *Artificial Intelligence Students Association*

NSS Volunteer: *National Service Scheme*

Technical Volunteer: *National Level Hackathon: Techathon'24*

SKILLS

Programming: Python, JavaScript, TypeScript, HTML/CSS, SQL, PHP, C/C++, Java.

Languages: English, German, Marathi, Hindi, Japanese.

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

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

Other Technologies: Linux, Version Control (Git), Ethical Hacking, Power BI, Tableau, Cloud Services, Automation, Selenium, Penetration Testing, CUDA, Computer Vision, Parallel Processing

AWARDS AND COURSES

- **First Prize**, GeekForGeek's GeekVishwa Hackathon'23, VIIT Pune
- **GenAI job Simulation**, BCGX(Forage)
- **Software Engineering job Simulation**, Goldman Sach's(Forage)
- **IT Automation with Python**, Google(Coursera)
- **Full Stack Web Development**, Udemy
- **Ethical Hacking**, Internshaala