

# Arjun Panse

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## EDUCATION

### Savitribai Phule Pune University

*B.E. in Information Technology — GPA: 9.32/10 — Rank: 4th in College*

### Government Polytechnic Pune

*Diploma in Computer Engineering — GPA: 9.52/10*

Pune, Maharashtra

*Sept. 2024 – Present*

Pune, Maharashtra

*Aug. 2021 – May 2024*

## TECHNICAL SKILLS

**Programming:** Python, C/C++, SQL, Java

**Libraries/Tools:** TensorFlow, PyTorch, LLM Engineering, Reinforcement Learning, scikit-learn, OpenCV, NLTK, Matplotlib, Git, MySQL, AWS, Agentic AI

**Soft Skills:** Problem Solving, Leadership, Analytical Thinking, Communication

## PROJECTS

### Self-Learning Curriculum Engine for LLMs

Oct. 2025 – Oct. 2025

*Reinforcement Learning, NLP — Python, PyTorch, TensorFlow, PPO, Ollama*

- Developed an autonomous training framework enabling LLMs to refine performance via self-evaluation.
- Used Proximal Policy Optimization (PPO) for reinforcement-based continual learning.
- Built a dynamic curriculum generator where the model acts as both generator and learner.

### DRONA — Defence Ready Operations for Networked Aircraft

Jan. 2025 – Present

*Deep Learning Project — Python, TensorFlow, JavaScript*

- Built an end-to-end predictive maintenance system for defense and commercial aircraft.
- Used mamba SSM models to forecast electronic and mechanical faults from sensor data.
- Developed data visualization dashboards for aircraft diagnostics and health reports.

### Kisaan Mitra

Aug. 2023 – May 2024

*Artificial Intelligence — Python, Streamlit, PHP, JavaScript*

- Created an AI-enabled marketplace for farmers with ML-based crop/fertilizer prediction and fake-news detection.
- Developed an integrated front-end (JS/CSS) and PHP backend ensuring a seamless user experience.

### Briefly — Discord Summarization Bot

Apr 2025 – May 2025

*Natural Language Processing — Python, Discord API, OpenAI API*

- Built a Discord bot that summarizes long conversations, documents, and messages to save users' time.
- Implemented context-aware summarization using transformer-based models and prompt engineering.
- Integrated multi-threaded architecture and caching to improve response efficiency and reduce latency.

## EXPERIENCE

### General Secretary

Jul. 2025 – Present

*PES Modern College of Engineering*

*Pune, Maharashtra*

- Lead student representation and collaboration for academic, cultural, and technical activities.
- Organized inter-department hackathons, tech talks, and leadership initiatives promoting innovation.
- Worked closely with faculty and student committees to enhance institutional engagement.

### Artificial Intelligence Intern

Sept. 2025 – Present

*The Bodhi Tree*

*Remote*

- Researching next-gen NLP models focusing on emotional intelligence and context understanding.
- Contributing to the AI architecture for an upcoming Ed-tech platform, integrating adaptive learning systems.
- Developed evaluation pipelines for fine-tuning small-scale LLMs for efficient inference.

### Java Developer

May 2023 – Jul. 2023

*Infeaneat Digital Media and Web Designing*

*Pune, Maharashtra*

- Developed a full-stack CRUD application for student record management using Spring Boot and MySQL.
- Implemented REST APIs and optimized database queries for scalability and performance.
- Collaborated with UI/UX designers to ensure smooth integration between frontend and backend systems.