

Keyurkumar Panchal

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AI Engineer with professional Python development experience and a strong foundation in computer engineering. Skilled in building production-ready backend architectures and developing AI solutions spanning deep reinforcement learning and computer vision.

Skills

Languages: Python, SQL, HTML, CSS, XML

Frameworks: PyTorch, Tensorflow, Keras, Django, Flask

Tools: PowerBI, Git, OpenCV, YOLOv5, Langgraph, LangChain, RAG

Experience

Warlock Technologies

Python Developer

Apr 2024 – Jul 2024

Gandhinagar, Gujarat

- Designed and developed custom Odoo modules tailored to specific client needs, enhancing their ERP capabilities.
- Integrated third-party applications and ERP systems to improve workflow automation and data consistency.
- Provided technical support, debugging, and performance optimization for Odoo solutions deployed.
- Collaborated with cross-functional teams to understand requirements and deliver scalable software solutions.

Axisray Technologies

Python Developer Intern

Jan 2023 – Jun 2023

Ahmedabad, Gujarat

- Built and maintained Django-based web applications, focusing on back-end functionality and database management.
- Developed RESTful APIs for data exchange between front-end interfaces and server-side logic.
- Participated in code reviews and agile development cycles, improving teamwork and software quality.
- Improved application performance by optimizing queries and refining the application structure.

Vnurture Technologies

Data Science Intern

Jun 2022 – Jul 2022

- Data sets analyzed using Python to extract insights and visualize them using PowerBI.
- Worked on data cleaning, transformation, and modeling to derive meaningful business intelligence.
- Completed a capstone project on Employee Salary Analysis, identifying trends and presenting results.

Education

Pandit Dindayal Petroleum University

M.Tech in Artificial Intelligence, CGPA: 8.50

Jul 2024 – May 2026

Gandhinagar, India

Silver Oak College of Engineering and Technology

B.E. in Computer Engineering, CGPA: 7.90

Aug 2019 – May 2023

Ahmedabad, India

Projects

Options Hedging Environment for RL-Based Strategy Development

Research Project

- Developing strategies for real-time, profitable options trading using deep reinforcement learning integrated with live market feeds.
- Built a simulation environment driven by real data using NSE spot and option data to train RL agents (PPO, DQN, A2C, A3C) in live trading scenarios.
- Engineered features using option Greeks and implied volatility; designed reward functions and discrete hedge actions with realistic transaction costs.

Reinforcement Learning for Signal Selection in Vehicle Platooning

- Applied Reinforcement-learning to balance latency and signal lifespan in V2V communication.
- Improved real-time decision making and coordination between vehicle platoons.
- Adaptively learn optimal signaling without relying on fixed rules.

Wildlife Conservation With A.I

- Developed an AI-powered system to detect lions near railway tracks in Sasangir, Gujarat, for accident prevention.
- Used YOLOv5 for object detection and DeepSort for real-time tracking of wildlife through video feeds.
- Integrated with Flask to build a web-based alert system for authorities, reducing animal fatalities.
- Achieved **FIRST place** in the Annual College Project Fair for innovative real-world impact.