

Piyush Kumar

piyushkarn96@gmail.com +91-9289084942 linkedin.com/in/piyush-kumar-045b4b2b7/

Portfolio: <https://aiwithpiyush.netlify.app/>

Summary

Results-driven Computer Science student with 2+ years of hands-on experience developing AI/ML solutions in Python. Winner of a national-level hackathon for deploying a real-time object detection system with 95% accuracy. Skilled in TensorFlow, PyTorch, YOLOv8, and NLP, with a proven record of delivering scalable software and measurable impact.

Education

KCC Institute of Technology & Management (KCCITM)

Bachelor of Technology in Computer Science

Noida, India

Sep 2023 – Sep 2027

Projects

– VisionX : Critical Object Detection In Space Station

Tech: Python · YOLOv8 · OpenCV · TensorRT · Flask

- Developed a real-time object detection system using YOLOv8 for space-critical environments
- Optimized models with TensorRT for high-speed inference on edge devices
- Created a full documentation site hosted on Netlify to showcase project workflow

– ResumeSnap : AI Powered Resume Analyzer & Job-Matching System

Tech: Python · NLP · OCR · AI-based Job Matching · Flask

- Developed an AI-driven web app using **Python** and **Flask** for resume-job matching.
- Automated resume parsing using OCR and NLP to extract and parse resume data.
- Integrated OpenAI to match resumes against job descriptions.

– Movie Recommendation System : Content Based Movie Recommender

Tech: Python · Pandas & NumPy · Streamlit · Scikit-learn · Kaggle

- Built a content-based recommender using Scikit-learn and cosine similarity on Kaggle movie data.
- Developed a real-time recommendation UI with Streamlit.
- Used Pandas and NumPy for data cleaning and feature engineering.

Achievements

- Winner of National-Level Hackathon for VisionX – Developed a critical object detection system for space station environments, recognized for innovation in real-time safety applications.
- Built Multiple Industry-Oriented Projects – Including a resume parsing system, real-time object detection (VisionX), school management system, and a Flappy Bird game clone.
- Hands-on Experience with Python-Based AI/ML Tools – Proficient in using libraries like OpenCV, scikit-learn, NumPy, and TensorFlow to develop AI models, preprocess data, and automate real-world tasks.

Technical Skills

- **Programming Language:** Python, C, HTML, CSS, SQL
- **AI/ML Framework Libraries:** TensorFlow, PyTorch, Scikit-learn, YOLOv8, Hugging Face, Pandas, NumPy
- **Tools & Platforms:** Git, Flask, Bootstrap, Netlify, Jupyter Notebook
- **Specialized Domains:** Natural Language Processing (NLP), Recommendation Systems, Generative AI, Blockchain-Integrated AI