

Piyush Kumar Gupta

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Education

Noida Institute of Engineering and Technology

Bachelor of Technology in Computer Science and Engineering (Data Science)

June 2022 – present

CGPA: 7.97/10.0

Jai Gurudev Raj Public School

Senior Secondary Education (Science Stream)

2020 – 2021

percentage: 81.6%

Jai Gurudev Raj Public School

High School Education

2018 – 2019

percentage: 77.8%

Experience

Artificial Intelligence and Machine Learning (Trainee)

Pyramid IT Consulting Pvt. Ltd.

Nov 2024 – Jan 2025

- Built a real-time object detection system using CNNs (PyTorch) and YOLOv5, with transfer learning and data augmentation. Deployed via Flask API and visualized performance using TensorBoard.

Data Science Intern

NextGenDev

Oct 2024 – Oct 2024

- Applied ML and DL concepts on real-world datasets, building and deploying predictive models using Python & TensorFlow for AI-driven business solutions.

Hackathon & Event

GeeksForGeeks Hackfest 2024

Sept 2024

[Project Link](#)

- Secured 4th position, while developing a pneumonia detection using a high-accuracy CNN model with deep learning.

Projects

Rooftop Energy Estimation (Transformer-Based Models)

[Project Link](#)

- The Rooftop Energy Detection Transformer Model identifies rooftops from satellite images using a Vision Transformer. It estimates potential solar energy output based on rooftop area and solar irradiance data.
- **Tools:** Python, PyTorch, OpenCV, YOLOv5, Google Colab, Flask, GitHub

Sign Language Detection

[Project Link](#)

- Trained a deep learning model to classify sign language gestures from video frames. Enabled real-time gesture recognition using MediaPipe for hand-tracking.
- **Tools:** Python, MediaPipe, TensorFlow, Keras

Mood Tracker Detection Web Application

[Project Link](#)

- The Mood Tracker App collects daily inputs on mood and activities, uses machine learning to analyze emotional patterns, and predicts mood trends.
- **Tools:** HTML, CSS, JavaScript, Flask, Machine Learning, Matplotlib, etc

Technologies

Languages: Java, Python, JavaScript, HTML, CSS, React.js

Frontend / Backend: Flask, Django, Bootstrap, Tailwind CSS, API Integration, Web APIs

Databases: MySQL, MongoDB, SQL Server

Version Control: Git, GitHub

Data Science and AIML TensorFlow, Keras, Scikit-learn, OpenCV, Apache Spark, PySpark, Tableau, Power BI

Platforms / Cloud: AWS, Google Cloud Platform (GCP), Google Colab, Linux (Ubuntu), VS Code, Canva (UI/UX)

Networking / Systems: Networking Fundamentals, Operating Systems, Data Structure, OOPs, CI/CD Pipelines

Certifications

Cisco Certified Network Associate (CCNA) – **CISCO**

Build an Azure AI Vision solution – **Microsoft**

Human-Centered Design for Inclusive Innovation – **University of Toronto (via Coursera)**

Building Machine Learning Systems with TensorFlow – **Infosys Springboard**

Data Analysis with Python – **IBM (via Coursera)**