

AKSHAT TRIVEDI

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Results-driven Python Developer pursuing B.Tech in IT (CGPA 8.1) with a strong foundation in data analysis and algorithmic problem-solving. Proficient in using Jupyter notebooks for code development and clear documentation of analytical workflows. Experienced in working with public datasets (Kaggle, US Government and MNIST) to derive insights and drive AI research. Demonstrated ability to collaborate effectively with fully remote, cross-functional teams and communicate technical concepts clearly.

EDUCATION

Bachelor of Technology in Information Technology

2022-2026

Pranveer Singh Institute of Technology, Kanpur, India

CGPA- 8.1

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Computer Networks, Machine Learning, Computer Vision

SKILLS

- **Languages & Tools:** Python (3.x), C++, Java, JavaScript, Bash, SQL, Git, Linux
- **Web & APIs:** Flask, REST APIs, Jupyter Notebooks
- **Data Handling:** Pandas, NumPy, Scikit-learn, Keras
- **Machine Learning:** TensorFlow, OpenCV, basic ML model development
- **Cloud & DevOps:** AWS (EC2, S3, Lambda), Docker (basic), CI/CD (GitHub Actions)
- **Data Visualization:** Matplotlib, Seaborn

EXPERIENCE

- **Outlier AI (Freelance)** 2024 - Present
Role: RLHF Code Specialist
 - Collaborate with cross-functional remote teams to design and implement scalable AI-driven solutions.
 - Utilize Python to automate machine learning pipelines and integrate data-processing APIs.
 - Document workflows and create training materials for remote teams.
 - Apply agile methodologies and clear communication across international collaborators.
- **Institute of Electrical and Electronics Engineers PSIT Branch Kanpur, India** 2023 - Present
Role: Chairperson, IEEE PSIT Student Branch
 - Organized workshops on sensors, IoT, and AI/ML to promote research and collaboration.
 - Guided students on Python scripting and technical documentation practices.
 - Created an inclusive and innovation-focused research community.

TECHNICAL PROJECTS

- ❖ **Air CTRL - A SOTA Hand Gesture Recognition System** Apr 2023 – Sept 2023
Technologies: Python, TensorFlow, Convolutional Neural Network, Flask, MediaPipe, OpenCV
 - Built a real-time hand gesture recognition app in python using **CNNs and MediaPipe and OpenCV**, enabling responsive user interactions.
 - Implemented inference **API** in **Flask** and automated training pipeline with Bash on Linux.
 - Used **Jupyter notebooks** for logic walkthroughs and experimental tracking.
- ❖ **Deepfake Detection & Recognition System** Oct 2023 – Feb 2024
Technologies: Python, TensorFlow, AWS, Flask, Jupyter, Docker, DFDC Dataset, VGG16 Datasets
 - Developed a patent-pending hybrid Deepfake detection model pipeline using **TensorFlow and Flask**, reducing computational load by 65% through a novel ASCII-based preprocessing technique/
 - The model was trained on large public datasets (e.g., **Kaggle, DFDC Dataset, VGG16 Datasets**) using Python and TensorFlow and deployed the model using Flask on **AWS EC2 (Docker)** and integrated Lambda automation for scalable inference.
 - Managed video data on S3 and documented all workflows in Jupyter for clarity and reproducibility.
- ❖ **FairPlay - An Anti-Doping Education App** May 2024 – Oct 2024
Technologies: React Native, Node.js, MongoDB, RESTful APIs
 - Developed a full-stack mobile application using **React.js (Front end)** and **Node.js/Express.js (Backend)**
 - Built and integrated robust **RESTful APIs** supporting personalized dashboards, real-time messaging, and chat features for gamified experience.
 - Implemented secure and scalable architecture ensuring efficient service delivery and performance optimization.

CERTIFICATIONS

- Machine Learning Course **Rinex Technologies** (Jun 2024 – Sept 2024)
- AWS Certified Cloud Practitioner **Amazon Web Services** (Dec 2024 – Jan 2025)
- Certified Java Developer – Expert **CJDE™** (Feb 2025 – Mar 2025)

ADDITIONAL HIGHLIGHTS

- Maintained and contributed to Python-based automation and ML utilities; active on open-source forums like Hugging Face and TensorFlow GitHub repos.
- Experienced in remote collaboration using tools like Git, Jupyter, and Notion, with clear written documentation.