ABHISHEK GUPTA

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EDUCATION

M.Tech in Data Science and Engineering **8.57 CGPA**
National Institute of Technology, Jamshedpur - Jharkhand, India Aug 2025 - Present

B.Tech in Computer Science and Engineering **8.31 CGPA**
UIET, University of Jammu - Jammu and Kashmir, India Nov 2020 - Aug 2024

WORK EXPERIENCE

Nucleon, IIT Jammu Jun 2023 - July 2023
Data Science Intern

- Preprocessed and cleaned structured datasets using Pandas and NumPy for downstream data analysis and modeling.
- Performed exploratory data analysis (EDA) to identify patterns, trends, correlations, and data-quality issues.
- Applied statistical analysis and data visualization techniques to derive meaningful insights from datasets.
- Supported machine learning workflows including feature preparation, model development, and performance evaluation.

ThinkNEXT Technologies Pvt. Ltd. Dec 2022 – Jan 2023
Python Developer Intern

- Developed a full-stack Online Digital Resume platform using Python and Django.
- Designed and implemented database schemas for structured storage and management of user and resume data.
- Implemented authentication and recruiter contact forms for secure user interaction and data collection.

PUBLICATIONS

Abhishek Gupta and Dr. Deepak Rai, "Vision Transformer for Oral Cancer Detection in Low-Light Intraoral Images," 5th International Conference on Machine Learning & Data Engineering (ICMLDE2026), 27th–28th November 2026, Dehradun, India [Accepted].

PROJECTS

Whirling Triangle-Based Pattern Classification *Python, Machine Learning*

- Developed triangle-transformation-based pattern classification using Python and ML.
- Implemented rotational feature extraction and ML classification.
- Achieved highest accuracy of 66.39% using Support Vector Machine (RBF kernel).

Brain Tumor Detection Pipeline *Python, OpenCV, NumPy, Matplotlib*

- Developed an automated MRI classification pipeline for 5,700+ scans.
- Applied grayscale conversion, normalization, and Gaussian blurring for feature extraction.
- Built NumPy/Matplotlib-based data processing and visualization pipeline.

Gesture Control System Using OpenCV *Python, MediaPipe, OpenCV*

- Built real-time gesture recognition system enabling touchless mouse & PPT control.
- Accomplished high-accuracy hand tracking using MediaPipe.
- Packaged executable using cxFreeze & INNO Setup.

SKILLS

Programming Languages: Python, C, C++, SQL
Libraries/Frameworks: NumPy, Pandas, Keras, OpenCV, Scikit-learn, Matplotlib
Technologies & Frameworks: FastAPI, Docker, MongoDB, MySQL, SDLC
Tools & Platforms: VS Code, GitHub, Overleaf, Colab, Kaggle, JIRA, PowerBI

ACHIEVEMENTS

- Secured 97.71 percentile in GATE CS 2025 (AIR 3917, Score 575).
- Top 2.36% — Amazon ML Challenge 2025 (AIR 1963 / 83,000+ participants).

CERTIFICATIONS

- Data Analytics with Python: NPTEL
- Tools for Data Science: IBM (Coursera)
- Learning Jira (Cloud Edition) by LinkedIn