

# Abhyuday Singh

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## EDUCATION

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**Jaypee Institute of Information Technology**  
Bachelor's degree in Computer Science Engineering  
CGPA: 9.0/10.0

Noida, Uttar Pradesh  
Expected May 2026

**St. Gregorios School**  
Percentage: 97%(PCM)

Dwarka, New Delhi  
Mar 2021 - Jun 2022

## WORK EXPERIENCE

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### Celebal Technologies

Data Science Intern

Jun 2024 – Aug 2024

- Probed a 20M+ record dataset through rigorous exploratory data analysis (EDA), pinpointing three major causes of data anomalies, and consequently improving data quality scores by approximately 15%.
- Communicated complex statistical insights—via correlation analysis, hypothesis testing, and regression—to both technical stakeholders across 5+ datasets, enabling informed business decisions.
- Spearheaded development and benchmarking of machine learning models—including XGBoost and random forests using scikit-learn—achieving 95% accuracy in classifying intricate anomaly patterns.

## UNIVERSITY PROJECTS

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### AI ASSISTANT

Apr 2025

- Led a small team in fine-tuning a Transformer-based intent detection model, attaining 96%+ command classification accuracy and enabling seamless voice and text execution for varied user tasks like app launches and searches.
- Streamlined model inference using Ollama with Mistral-7B and caching, reducing average response time to <1.5 seconds and enhancing user experience by 40% through collaborative optimization efforts.

### BRAIN LINK

Nov 2024

- Co-developed a collaborative brain-computer interface using EEG technology, achieving 82% command decoding accuracy and improving assistive device control for individuals with motor impairments.
- Initiated and led the integration of a binary tree-based multilingual questionnaire system, enabling rapid deployment in 3+ languages and expanding the project's accessibility to a global audience.

### KEYLOGGER

Nov 2024

- Orchestrated the ethical development of a lightweight keylogging utility for responsible system monitoring use cases, ensuring 98% keystroke capture with secure timestamp logging.
- Promoted secure practices by integrating 2048-bit RSA encryption and automating real-time data updates, while mentoring peers on privacy-preserving design and achieving a sub-1MB secure footprint.

## EXTRAS

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- **Certifications:** Introduction to AI (NPTEL, IIT Delhi), Introduction to Blockchain (NPTEL, IIT Kharagpur).
- **Competitive Programming:** 300+ Leetcode problems and 1089 Codeforces rating.
- **Social Initiatives:** Collaborated with "Light de Literacy" society to raise funds supporting the education of underprivileged children, enabling school enrollment and access to essential stationery for 30+ students.
- **Hackathons:** Participated in multiple university and national-level hackathons, demonstrating resilience and analytical thinking under time constraints while working collaboratively in diverse teams.

## SKILLS

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- **Languages:** Python, C++, C, Javascript, PHP
- **Machine Learning and NLP:** Pytorch, HuggingFace Transformers, NLTK, Sci-kit learn, Pandas, Numpy
- **Web Development:** React.js, Node.js, Bootstrap, HTML, CSS.
- **Databases and Tools:** MySQL, MongoDB, Redis, HBASE, Docker, Git/Github, VS Code, Jupyter notebook, Kaggle.