

# SUMIT PANDEY

 [sumitpandey.github.io](https://sumitpandey.github.io)

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## Education

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### Thapar Institute Of Engineering & Technology

*Master of Computer Applications*

2024 – 2026

Patiala, Punjab

### Ajeenkya DY Patil University

*Bachelor of Computer Applications*

2020 – 2023

Pune, Maharashtra

## Experience

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### Amazon ML Summer of School

July 2025 – Aug 2025

Mentee

Remote

- Selected among top candidates for Amazon's prestigious Machine Learning Summer of School program.
- Gained hands-on experience in advanced ML concepts, real-world problem solving, and industry-level projects.
- Collaborated with peers and mentors from Amazon to implement scalable and optimized AI/ML solutions.

### CollegeDunia

July 2023 – Jan 2024

Data Analyst Intern

Gurugram

- Automated 30+ tasks using Python, JavaScript, Selenium, and similar tools, cutting task time by over 50%.
- Extracted Insights from 200+ YouTube Analytics, Instagram Professional Dashboard and Meta Business Suite.
- Strategized & identified 20%+ growth opportunities resulting in a significant uptick in engagement and audience reach.

### NCR Eduservices

Nov 2021 – Apr 2022

Tech Intern

Noida

- Successfully executed and contributed to real-life web development projects.
- Applied fundamental Data Science concepts to conduct an in-depth analysis of 10+ competitors.
- Produced 30+ captivating presentations and designed engaging content to outline the future trajectory of our website.

## Projects

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### Secure & Intelligent Q&A System (RAG + LLM) | NLP, Vector Search | [GitHub Link](#)

Aug 2025

- Local & secure RAG system using Google Gemma, enabling private, high-performance natural language conversation.
- End-to-end data processing and retrieval workflow, text chunking, semantic embeddings, and vector similarity search.

### AI-Powered Deepfake Speech Detection with Wav2Vec2 | GANs, ML, XAI | [GitHub Link](#)

April 2025

- Harnesses Wav2Vec2 embeddings and GAN-augmented training to accurately identify synthetic speech.
- Integrates XAI tools (LIME, SHAP, Grad-CAM) for transparent and interpretable predictions.

## Research Paper

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### Text Summarisation (MultiModal) | NLP, Python, ML | [GitHub Link](#)

May 2023

- Delivers concise summaries of lengthy texts while preserving their essential content.
- Supports both English & Hindi languages, and even includes YouTube Video content.

## Technical Skills

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**Programming Languages:** Python, C/C++, SQL, Bash

**Development:** Data Structures and Algorithms, Software Engineering

**DevOps & Cloud:** Linux, Git, Docker, AWS

**AI & Machine Learning:** Scikit-learn, TensorFlow, PyTorch, NLP, LLM, RAG

**Data Analytics:** Pandas, NumPy, Seaborn, Matplotlib, PowerBI, Databricks, Spark

## Certification

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### IBM Data Science Professional Certificate

Sept 2021

*Coursera*

- Tools, Methodology & Development.
- Python, Database & ML.
- Data Analysis & Visualization.