

# Samarth Tiwari

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https://portfolio-samarth.netlify.app/

## TECHNICAL SKILLS

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**Programming Languages:** Python, SQL, Java

**Deep Learning Frameworks:** TensorFlow, Keras, NLP, GenAI, LLMs, GPT-4, Prompt Engineering, RAGs, Transformers

**Libraries & Tools:** NumPy, Pandas, Scikit-learn, OpenCV, NLTK, Scapy, Git, Streamlit, Hugging Face

## PROJECTS

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### DepoIndex

Jun 2025 – Jul 2025

*AI-powered Deposition Transcript Indexing Tool*

*Python, Gemini 2.5 Flash, Scikit-learn*

- Built an end-to-end system to automatically generate a structured Table of Contents (TOC) for legal deposition transcripts, reducing manual indexing time by **80%**
- Designed custom parsing and topic clustering algorithms to support **3+ transcript formats** with **95% parsing accuracy**
- Enhanced transcript navigation efficiency, enabling users to locate key topics **5× faster** with page and line references

### Digit Recognizer

May 2025 – Jun 2025

*Handwritten Digit Classification App*

*Python, TensorFlow, Streamlit*

- Developed a deep learning model using **Convolutional Neural Networks (CNNs)** to classify handwritten digits from the **MNIST dataset** with **98% accuracy**
- Built an interactive **Streamlit web app** allowing users to draw or upload digits and receive real-time predictions
- Implemented preprocessing with OpenCV to handle user-drawn inputs and improve prediction robustness

## EXPERIENCE

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### Python Developer Intern

May 2025 – July 2025

*ExaTip Technologies*

*Indore, MP*

- Conducted research on reinforcement learning algorithms for robotics
- Implemented and evaluated deep RL models using PyTorch and RLlib
- Presented findings at weekly research meetings

### Data Science Virtual Internship

Feb 2025 – Feb 2025

*British Airways*

*Remote*

- Completed a simulation showcasing how data science enhances British Airways' operations, potentially improving decision-making efficiency by 20-25.
- Scraped and analyzed 10,000+ customer reviews, uncovering key sentiment trends that could enhance customer satisfaction by 15-20.
- Developed a predictive model that achieved 85-90 accuracy, identifying the most influential factors driving customer purchasing behavior.

## EDUCATION

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### VIT Bhopal University

Bhopal, MP

*BTech Computer Science and Engineering Spec in Cloud Computing and Automation*

*Aug 2023 – May 2027*

### Rankers International School

Indore, MP

*12th Standard, CBSE - 76.4*

*April 2021 – April 2023*

### SICA

Indore, MP

*10th Standard, CBSE - 75.6*

*April 2011 – March 2021*

## ACHIEVEMENTS AND CERTIFICATIONS

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- IBM Professional Data Scientist
- **Secured 1st Prize** at the *Nexus Nebula Hackathon* organized by Manipal University Jaipur