

Abhinav Tiwari

Bachelor of Technology

Motilal Nehru National Institute of Technology Allahabad, Prayagraj

My Portfolio

+91-7054425113
abhiitiwarii0@gmail.com
Abhinav-21
abhinav-tiwari-mnnit

EDUCATION

- | | |
|---|-------------------------|
| • Motilal Nehru National Institute of Technology Allahabad | 2021-2025 |
| Bachelor of Technology | CPI: 8.04 |
| • Intermediate S.K.D. Academy | 2020-2021 |
| Central Board of Secondary Education, Uttar Pradesh | Percentage: 95.6 |
| • Matriculation S.K.D. Academy | 2018-2019 |
| Central Board of Secondary Education, Uttar Pradesh | Percentage: 94.4 |

EXPERIENCE

- | | |
|---|----------------------|
| • Shorthills AI | March 2025 - Present |
| SDE Intern | Gurugram, Haryana |
| – Gained hands-on experience in SQL , Python , and Advanced Excel for data handling and Generative AI . | |
| – Developed AI-driven solutions including Retrieval-Augmented Generation (RAG) pipelines and custom OCR models . | |
| – Performed sanity testing and unit testing using Python scripts and SQL queries. | |
| – Queried and analyzed complex databases using DBeaver , enhancing understanding of large-scale data systems. | |

PROJECTS

- | | |
|--|--------|
| • Financial Insights Dashboard (Excel and Power BI) | |
| Built a semi-automated financial tracker with visual analytics for expense management and reporting. | |
| – Tools & Technologies: MS Excel, Power BI, Pivot Tables, Conditional Formatting, Data Validation. | |
| – Automated income/expense tracking with category tagging, month-end carry-forward, and data validation. | |
| – Created Pivot Tables, Pie Charts, and Power BI dashboards to visualize financial trends. | |
| – Applied dynamic formatting and summaries to highlight spending patterns and financial health. | |
| • Document Processing Automation using OCR and RAG | GitHub |
| Developed an AI-powered system to extract, process, and retrieve document information for business automation. | |
| – Tools & Technologies: Python, Transformers, Tesseract OCR, LangChain. | |
| – Automated document data extraction and intelligent retrieval using OCR with Retrieval-Augmented Generation (RAG). | |
| – Reduced manual document review effort, enabling faster access to key information. | |
| • Handwritten Digit Recognition Model | GitHub |
| Implemented and trained a fully-connected neural network from scratch to classify handwritten digits (MNIST dataset). | |
| – Tools & Technologies: Python, NumPy, Pickle, Matplotlib, Keras (dataset). | |
| – Implemented core components including ReLU activation and Softmax output layer for multi-class classification. | |
| – Achieved 93% accuracy by optimizing weights using backpropagation and gradient descent (GD). | |

TECHNICAL SKILLS

Languages: Python (LinkedIn Certified Top 5%), SQL, C++, C
Technologies: Data Warehousing, ETL Pipelines, Transformer Models, LLMs, RAG
Developer and Analytics Tools: VSCode, Power BI, MS Excel, Jupyter Notebook, Spyder, MySQL, Git
Cloud/Big Data Tools: AWS (Basics), Apache Spark (Basics)
Soft Skills: Critical Thinking, Data-driven Decision Making, Troubleshooting, Communication, Collaboration

INTERESTS

- | | | |
|------------------------------|--------------------|---------------|
| • Data Science and Analytics | • Machine Learning | • Mathematics |
| • Puzzling and Quizzing | • Generative AI | • Debating |

ACHIEVEMENTS

- | | |
|--|--------------|
| • Got an LOR from Bharat Petroleum CRDC and TPO MNNIT. | August, 2024 |
| • Winner of Just in Case under Nirmaan in Avishkar | March, 2024 |
| • Winner (team) of Gnosis India Quiz | August, 2022 |
| • Winner Chemathlon under Rasayan (Mock Placement Drive) | March, 2024 |

POSITIONS OF RESPONSIBILITY

- Training and Placement Representative of the batch 2025
- Member of Expanding Horizons 5.0 (under Student Mentorship Program).
- Member of Hospitality Team in **gnoTalks 2024**.