Abhinay Tiwari

Bachelor of Technology

Motilal Nehru National Institute of Technology Allahabad, Prayagraj

My Portfolio

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2021-2025

2020-2021

2018-2019

EDUCATION

•Motilal Nehru National Institute of Technology Allahabad

Bachelor of Technology CPI: 8.04

•Intermediate | S.K.D. Academy

Central Board of Secondary Education, Uttar Pradesh Percentage: 95.6

•Matriculation | S.K.D. Academy

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 pipelines and custom OCR models.
- Performed sanity testing and unit testing using Python scripts and SQL queries.
- Fixed bugs and performed frontend/backend testing on client onboarding projects.
- Queried and analyzed complex databases using **DBeaver**, enhancing understanding of large-scale data systems.

PROJECTS

•Multimodal Learning for Hinglish Meme Classification

GitHub

Built a sentiment analyzer using the Memotion 3.0 dataset, leveraging both text and image features.

- Tools & Technologies: Python, TensorFlow, Keras, Pandas, NumPy, Matplotlib.
- Combined DistilBERT-Multilingual for text and VGG16 for image processing in a multimodal model.
- Performed sentiment and emotion classification, achieving an overall F1-weighted score of 78.82%.
- Greatly improvemed over unimodal models in Humor (90.04%) and Motivational (95.62%) categories.

•Healthcare Record Management System

GitHub

Developed a web-based system with secure document storage and health data analytics.

- Tools & Technologies: HTML, CSS, JavaScript, Node.js, Express, Python, MongoDB, Web3.storage.
- Implemented distributed document storage with access control and token-based retrieval.
- Enabled hospital-only uploads and patient-level analytics: vaccination rates, chronic disease spread, BMI trends.

•Handwritten Digit Recognition Model

GitHub

Built a neural network from scratch for classifying handwritten digits (MNIST dataset).

- Tools & Technologies: Python, NumPy, Pickle, Matplotlib, Keras (dataset).
- Implemented ReLU activation, Softmax output layer, and forward/backward propagation manually.
- Achieved 93% accuracy through gradient descent and weight optimization.

TECHNICAL SKILLS

Languages: Python, C++, C

Developer Tools: VScode, Excel, Jupyter, Spyder, Git, pip, npm

Frameworks: ExpressJS

Soft Skills: Communication, Time-Management, Problem-Solving, Collaboration, Creativity, Adaptability, Empathy

Coursework: Data Structures and Algorithms, Web Development, Machine Learning

INTERESTS

• Data Science and Analytics

• Machine Learning

• Mathematics

• Puzzling and Quizzing

• Artificial Intelligence

• Debating

• Competitive Programming

• Data Structures and Algorithms

ACHIEVEMENTS

•Received a LOR at BPCL CRDC facor my performance during the internship.

August, 2024 March, 2024

•Winner of Chemathlon under Rasayan in Avishkar •Winner (team) of Gnosis India Quiz

August, 2022

•2-year consecutive gold medal winner in Annual Athletics Meet in Shot-put

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.