Abhishek

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Education

Indian Institute of Information Technology, Design and Manufacturing (IIITDM)   *Kurnool, AP*

B.Tech in Artificial Intelligence & Data Science   **Expected May 2026**

- **Relevant Coursework:** Data Structures Algorithms, Machine Learning, Deep Learning, Natural Language Processing, Computer Vision, Database Management Systems.

Experience

xFORM Solutions (Intern - AI Application Development)   *May 2025 – July 2025*

- Reduced data processing time by 25% by architecting a scalable backend using **Django REST Framework**.
- Boosted information retrieval speed from the company's catalog by 35% by integrating a **Retrieval-Augmented Generation (RAG)** model.
- Implemented a Speech-to-Text feature with a 98% word accuracy rate using the Assembly API, minimizing manual data entry. Also used **NLP** using gemini.
- Secured all API endpoints by implementing **JWT-based token authentication**, eliminating unauthorized access vulnerabilities.

SkillCraft Technology (ML Intern)   *Sept 2024 – Oct 2024*

- Achieved 93% classification accuracy by developing a **Convolutional Neural Network (CNN)** trained on a dataset
- Engineered a real-time gesture recognition system using **OpenCV**, processing video streams with an average latency of under 50ms.

Prodigy Infotech (ML Intern)   *Aug 2024 – Aug 2024*

- Improved classification model accuracy by 15% by implementing and fine-tuning **Support Vector Machine (SVM)** algorithms for predictive analysis tasks.

Projects

SHOPNEX — *E-commerce Platform*   *GITHUB*

- Developed a comprehensive suite of RESTful APIs using **Django REST Framework** for product management, user authentication, and order processing.
- Optimized **MySQL** database queries and schema, resulting in a 40% reduction in average API response.
- Integrated the **Stripe API** to handle secure online transactions and manage payment states.
- Secured all endpoints with robust, **token-based authentication** and permission classes to protect user data.

SRR — *Song Recommender and Recognizer*   *GITHUB*

- Implemented an audio **fingerprinting algorithm** with **Shazam API** matching in under 5 seconds.
- Extracted key audio features like Chroma using the **Librosa** library for the content-based recommendation engine.
- Designed a **content-based filtering** algorithm to recommend songs from a library of over 50,000 tracks.

Skills

Languages	C, C++, SQL, Python, R, HTML, CSS, JavaScript
Frameworks / Libraries	Django REST, OpenCV, Pandas, NumPy, Scikit-learn, tensorflow, keras
Tools	Power BI, DataGrip, Git, Postman
Specializations	Machine Learning, NLP, Computer Vision, RAG, REST APIs

Coding Profile

- **LeetCode:** abhishek_vimukt
  Solved **200+** problems on Data Structures and Algorithms overall.