Pranay Pandey

Computer Science Engineering Student (Delhi Technological University)
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Education

Delhi Technological University (DTU) **2023–2027**
Bachelor of Technology (B.Tech.) in Computer Science Engineering

Sant Gyaneshwar Model School **2021–2023**
CBSE Class XII

Hansraj Model School - Punjabi Bagh **2009–2021**
CBSE Class X

Experience

Machine Learning Intern @ DRDO **06/2025 – 07/2025**
Technologies: Python, Pandas, NLTK, Scikit-learn, Node2Vec-Graphing, TF-IDF, Fuzzy C-Means, FuzzyWuzzy, FastAPI, .NET (C#), Angular
- Designed and deployed a full-scale AI-driven recommendation system, leveraging advanced Machine Learning algorithms, Natural Language Processing, and Pre-Computed Graph Embeddings.
- Built Ground-Up, the system incorporated cutting-edge computational techniques and scalable deployment strategies for seamless integration with existing software, ensuring interoperability and real-world applicability.

Technical Proficiencies

Core Programming Skills: Java (**DSA**), Python (**ML,DSA**), C++, C
Database Technologies: MongoDB, MySQL
Machine Learning: Pandas, NumPy, SciKit-Learn, PyTorch, TensorFlow (Keras), OpenCV
Web Development: HTML, CSS, JavaScript, Bootstrap, React, Node.js, Express.js, GraphQL

Coursework:
Computer Networks, Operating Systems, Computer Architecture and Organization, Object-Oriented Programming Systems, Database Management

Skills:
Strategic Planning, Critical Thinking, Leadership, Conflict Resolution, Presentation, Interpersonal Communication and Team Collaboration

Achievements & Certifications

- **2nd Position in Adobe AI-Hackathon (InvictusDTU 2023):**
  *Engineered a **Document Classification ML Model** to enhance document processing.*
- **Machine Learning Specialization by DeepLearning.AI and Stanford University :**
  *Mastered **Supervised Learning**, **Unsupervised Learning**, and **Advanced Algorithms**.*
- **Deep Learning Specialization by DeepLearning.AI :**
  *Mastered **NN - Deep Learning**, **Sequence Models**, and **Convolutional Neural Networks**.*
- Solved **200+ LeetCode Questions**, enhancing proficiency in **DSA-Java** and **Problem Solving**.

Projects

AI-Driven Personalized Web Platform with RAG
Technologies: React, Node, Express, MongoDB, Python, FastAPI, LangChain, NLP-Transformers
– Built a scalable MERN WebApp integrating an AI chatbot leveraging RAG for document processing, contextual insights and an adaptive recommendation engine.
– Optimized application using vector retrieval, semantic embeddings, and transformers for intelligent responses.

Computer Vision Model Implementations
Technologies: Python, OpenCV, TensorFlow, Keras
– Object and Hand Gesture Recognition models to understand CNN-based pipelines and processing.
– Achieved high accuracy in test environments, optimizing performance for real-time responsiveness.