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

ML Intern, DRDO **06/2025 – 07/2025**
Technologies: Python, NLTK, Scikit-learn, Node2Vec, TF-IDF, Fuzzy-C Matching
- Built an NLP and Machine Learning–Powered Recommendation Engine, leveraging clustering, and graph embeddings.
- Optimized performance and efficiency through static precomputation and hybrid inference strategies.

Technical Proficiencies

Core Programming Skills: Java (**DSA**), Python (**ML**), C++, C
Database Technologies: MongoDB, MySQL
Machine Learning: Pandas, NumPy, SciKit-Learn, PyTorch, TensorFlow (Keras), OpenCV
Advanced AI & NLP Tools: Hugging Face Transformers, LangChain, GPT-Neo, StyleGAN
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 **250+ LeetCode Questions**, enhancing proficiency in **DSA-Java** and **Problem Solving**.

Projects

AI-Powered Chatbot for Customer Support
Technologies: Python, Transformers (NLP), Flask, MongoDB
– Built an AI-based chatbot to explore NLP fundamentals, sentiment analysis, and API handling.
– Integrated and implemented sentiment detection achieving **95% accuracy** on curated test data.

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.

Unified Web Platform with AI Features
Technologies: React, Node.js, Express.js, MongoDB, Python
– Developed a multi-functional platform combining social, e-commerce, and logistics modules.
– Integrated AI-based content personalization and tested architectural decisions for service interoperability.