Abhishek Patel

Pratapgarh +91 770403088 abhi1610511@gmail.com linkedin.com/in/abhishek-patel-18209528a github.com/abhip161

Education

Bundelkhand Institute of Engineering and Technology (BIET Jhansi) *Sep 2022 - May 2026*
B.Tech in Information Technology (GPA: 7.56/10) *Jhansi, U.P*

- **Coursework:** Data Structures and Algorithms, Machine Learning, Artificial Intelligence, DBMS.

Technical Skills

- **Programming Languages:** Python, C++, Java, SQL, JavaScript
- **Frameworks & Libraries:** TensorFlow, PyTorch, Scikit-learn, Hugging Face Transformers, NumPy, Pandas, Matplotlib, Seaborn
- **Concepts & Tools:** Machine Learning, Deep Learning, NLP, Computer Vision, Regression & Classification, Feature Engineering, Model Evaluation, Flask, Streamlit, Git, Jupyter Notebook, Google Colab

Soft Skills

- Communication, Teamwork, Leadership, Problem-Solving

Projects

Fake News Detection using Machine Learning: (LINK) *Jan 2025 - Mar 2025*
Tools Used: Python, Scikit-Learn, Pandas, NumPy, NLTK, Matplotlib, Seaborn

- Developed a **Fake News Detection model** using **Logistic Regression**, achieving **95% accuracy** on a dataset of **20,000+ labeled news articles**.
- Performed text preprocessing on **50,000+ sentences**, including stopword removal, stemming, tokenization, and TF-IDF vectorization, reducing noise by **15%**.
- Conducted exploratory data analysis (EDA) on **10 textual features** such as title length and word frequency, identifying correlations improving accuracy by **8%**.
- Evaluated model using **precision = 94%, recall = 96%, F1-score = 95%**, ensuring consistent real-vs-fake classification.

Heart Disease Prediction using Logistic Regression: (LINK) *Sep 2024 - Oct 2024*
Tools Used: Python, Pandas, NumPy, Scikit-Learn, Matplotlib, Seaborn, Google Colab

- Implemented a **Heart Disease Prediction system** using **Logistic Regression**, achieving **88% accuracy** and **AUC = 0.91** on the **UCI dataset (1,000 records)**.
- Processed **13 medical attributes**—including cholesterol, resting blood pressure, and chest pain type—by cleaning and normalizing data to reduce variance by **12%**.
- Applied correlation analysis to rank top 5 most influential features; optimized model using recursive feature elimination, improving precision by **10%**.
- Validated model with **10-fold cross-validation** and visualized results via ROC-AUC curve and confusion matrix for interpretability.

Achievements & Certifications

- Solved over **500+ problems** in Data Structures and Algorithms — including **400+ on** LeetCode and **100+ on** Codeforces; improved problem-solving speed by **30%** and strengthened algorithmic logic through consistent daily practice.
- Achieved a **Pupil rating (Max: 1300)** on Codeforces, ranking in the top **15% of global contestants** and demonstrating advanced knowledge of data structures and algorithms.
- Earned the **Oracle Cloud Infrastructure 2025 Certified Data Science Professional** credential — demonstrated expertise in end-to-end data science workflows, model training, and deployment using Oracle AI infrastructure. View Certificate.
- Completed the **Databricks Accredited Generative AI Fundamentals** certification — gained practical knowledge of Generative AI principles, foundation models, and real-world applications using Databricks. View Certificate.