Arpita Rajput

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Education

VIT Bhopal University — Bhopal, Madhya Pradesh
Integrated M tech CSE (Data Science and Computational) - 8.88/10 — Expected June 2027
Govt. Higher Secondary School Talen (12th Standard) - 92% — Talen , Rajgarh (May 2022)
Govt. Girls High School Talen (10th Standard) - 97% — Talen , Rajgarh (June 2022)

Projects

PDFMind :- (Google Gemini, LangChain, Pinecone, Node.js, Vector Embeddings, RAG) [LINK]   **August 2024**
- Built a complete RAG-based PDF Q&A system using Google Gemini, LangChain, and Pinecone.
- Implemented semantic search and vector embeddings for context-aware information retrieval from user-uploaded PDFs.
- Designed a web interface with reliable AI responses, ensuring answers come strictly from the document context.

Lapetos Healthcare:- (HTML5, CSS3, JavaScript, Django, RESTful APIs, JSON, Git & GitHub) [LINK]   **July 2025**
- Developed and deployed a **full-featured hospital management website**, supporting **hundreds of concurrent users** for real-world healthcare operations.
- Implemented **dynamic pages, forms, and user interactions**, reflecting actual hospital workflows to ensure usability and efficiency.
- Designed a **scalable and reliable architecture**, enabling seamless patient, doctor, and appointment management while maintaining readiness for continuous live usage.

FaceTruth :- Deep Fake Detection System (Image - Based) [LINK]   **Feb 2025 - April 2025**
- Developed a **deepfake detection platform** using **CNN with transfer learning and data augmentation**, trained on **4,000+ images**, achieving **high-accuracy binary classification**.
- Deployed a **real-time prediction system with Flask**, enabling seamless image upload and instant deepfake detection.
- Optimized features and regularization to boost model performance

Technical Skills

- **Languages:** Java, Python, R, MySQL, JavaScript, HTML/CSS
- **Frameworks & Libraries:** Django, React, Pandas, NumPy, Matplotlib, TensorFlow, Scikit-learn
- **Tools & Platforms:** Git, GitHub, AWS, VS Code, Power BI, Canva, Firebase, Tableau
- **Core Fundamentals:** Data Structures & Algorithms, OOPs, DBMS, Operating System, Statistics & Probability
- **Other Skills:** Data Analysis, Machine Learning Model Optimisation , GenAI

Achievements

- **Google India Girl Hackathon 2025:** Achieved **Semi-Finalist** status from **57,000+** participants and qualified for a **Google interview** opportunity.
- **TCS CodeVita Season 13:** Cleared **Round 1 (Rank 2701)** and **Round 2 (Rank 3533)** at the **global level.**
- **STARS Scholarship:** Awarded **100%** STARS Merit Scholarship by VIT Bhopal for securing the District Topper rank in Class XII.
- **NSPIRE Scholarship** (Govt. of India): Received ₹4,00,000 for academic excellence, ranking in the **Top 1%** of MPBSE Class XII
- **Abdul Kalam Scholarship (District Level): Top 5 achiever**, awarded **₹5,000** for academic excellence.

Extracurricular Activities

- Selected as a mentee for the Graphs Camp by Codeforces Master (Dec 2025) among 80,000+ students nationwide, with advanced training in graph algorithms.
- Active team member of the Linux Club and Data Science Club, VIT Bhopal.
- Participated in technical workshops organized by the Finance Club and Data Science Club.

Certifications

- NPTEL (Introduction to Machine Learning), October 2024 [Link]
- Coursera (Applied Machine Learning in Python), December 2023 [Link]
- Coursera (Introduction to Data Science with Python), January 2025 [Link]

Additional Information

Languages: Hindi, English
Hobbies: Photography, Sketching.