Arpita Rajput

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Education

VIT Bhopal University   Bhopal, Madhya Pradesh
Integrated M tech CSE (Data Science and Computational) - 8.87/10   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
- **Built a real-world hospital website** designed for actual healthcare use, with the application almost production-ready and only deployment pending.
- **Developed both frontend and backend** using **HTML, CSS, JavaScript, and Django** to handle dynamic pages, forms, and user interactions.
- **Focused on real hospital workflows and usability**, ensuring the platform is scalable, reliable, and ready for live hosting.

FaceTruth - Deep Fake Detection System (Image - Based) [LINK]   **Feb 2025 - April 2025**
- As a group project, we developed a Deepfake Detection System with a CNN that includes 4, 000+ images by means of CNN feature extraction, transfer learning, data augmentation, regularization, binary classification metrics, and Flask for web deployment.
- As a Frontend Developer, I used HTML, CSS, and JavaScript to create a responsive UI for image upload and result display.
- The frontend was connected with the Flask backend to allow real, time prediction and seamless user interaction.

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
- **Other Skills:** Data Analysis, Machine Learning Model Optimisation , GenAi

Achievements

- Semi-Finalist at **Google India Girl Hackathon 2025**
- **TCS CodeVita Season 13 -** Cleared Round 1 **(Global Rank: 2701)** & Round 2 **(Global Rank: 3533).**
- Awarded with Dreamed **STAR Scholarship** (State Level) from VIT Bhopal (100% Fee Waiver).
- Received **INSPIRE Scholarship** for higher education for being in the top 1% of Class 12 examinations.
- Awarded **Abdul Kalam Scholarship** (District Level) - Top 5 achiever.

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]
- MATLAB (Data Analysis in MATLAB), December 2024 [Link]