Mahek Vanjani

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Education

Indian Institute of Technology   2026
Bachelor of Technology in Electrical Engineering (GPA: 8.47 / 10.00)   *Jodhpur,Rajasthan*
- **Relevant Coursework:** Data Structures and Algorithms (C++), Prob & Stat in CS (Python), Intro to CS II (C++), Linear Algebra**(Grade:A)**,Pattern Recognition Machine Learning

Key Experiences

EJY Health   2024
Generative AI Research Intern - Hugging Face, Transformers, Python, API, Git, Docker/Kubernetes, HTML/CSS   *Remote*
- Developed visualization generation algorithms, enhancing data processing speeds by 40%, leading to a 50% increase in user engagement.
- Created a prototype capable of processing speech and text inputs, interpreting natural language queries, and generating insightful visual representations of complex datasets. **GitHub**

Solcare Innovations Pvt. Ltd   2023
Digital Marketing Intern - Google Analytics, Google Ads, CRM Software   *Remote*
- Amplified social media presence through strategic content creation and targeted advertising; accelerated a boost in overall engagement rates and doubled click-through rates, driving a significant increase in website traffic.
- Expanded the reach of e-clinics from 10 to 200 within a year, utilizing strategic partnerships and network growth initiatives, resulting in a 500% increase in patient consultations and revenue.

Projects

Efficient Computations on ML Accelerators | *Linux, Vivado, Verilog, Vitis HLS, FPGA Boards, Algorithm Optimization*
- Currently developing specialized hardware accelerators for machine learning algorithms, focusing on optimizing the performance and accuracy of Vision Transformer model.
- Implemented designs for hardware synthesis and detailed low-level programming, with a strong emphasis on algorithm optimization. **GitHub**

PIXELIZE: Picture Interaction Xperience with Electronic Language and Intelligent Zoom Effect
Project Member, RAID IIT Jodhpur - Hugging Face, Transformers

- Developed a cutting-edge chatbot with multimodal capabilities (GPT-4, images, and text) for seamless user interactions, enabling responses to evolving conversations.
- Implemented the image captioning model CLIP and explored diffusion models to enhance question-answering capabilities, aiming for a visual question-answer retrieval system.**GitHub**

Sentiment Classification using NLP | *Course Project, IIT Jodhpur - Hugging Face, NLP, NLTK, ML Models*
- Applied Python, PyTorch, and NLP methodologies to develop and optimize classification models, significantly enhancing search relevance and user experience.
- Achieved a notable accuracy of 84% using advanced techniques in Random Forest and Logistic Regression models. **GitHub**

Technical Skills

Languages: C/C++,Verilog,HTML,MATLAB,Python,CSS,SQL
Technologies: TensorFlow, PyTorch,Figma, Google Analytics, Numpy, Slack, VS Code, Pandas, PyTorch,Git/Github
Concepts: Compiler,Artificial Intelligence, Machine Learning, Neural Networks, API, Agile Methodology,Product Management,Generative AI

Scholastic Achievements

- Secured **5th Departmental Rank** in the academic year 2023 – 2024 at IIT Jodhpur.
- Achieved a **Leetcode rating of 1514**, ranking among the top 38%.

Extracurricular

Assistant Head - Entrepreneurship Cell, IIT Jodhpur   2023 – 2024
- Coordinated and led initiatives aimed at fostering entrepreneurship among students.
- Engineered sponsorship strategy and pitched to companies, securing The Product Folks as an event partner for Prodpulse as a part of Econclave; increased case study competition engagement by 120% and enhanced event credibility.