

Mahek Vanjani

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Jodhpur, Rajasthan, India

EDUCATION

IIT JODHPUR

B.TECH, ELECTRICAL AND
ELECTRONICS ENGG.

Oct 2022 – Present | Jodhpur,
Rajasthan
CGPA: 8.63 / 10

ST. ANSELM'S SR. SEC. SCHOOL

12TH GRADE, SCIENCE STREAM
May 2022 | Abu Road, Rajasthan
96.6%

10TH GRADE

May 2020 | Abu Road, Rajasthan
94.8%

LINKS

Github:// MahekVanjani611

LinkedIn:// MahekVanjani

Portfolio:// MahekVanjani

COURSEWORK

UNDERGRADUATE

Pattern Recognition and Machine
Learning
Data Structures and Algorithms
Artificial Intelligence
Computer Architecture
Object oriented programming(OOPs)
Deep Learning
Software Development
Introduction to Computer Science
Operating Systems
Object-Oriented Design

SKILLS

SOFT SKILLS

Problem-Solving • Teamwork &
Collaboration • Creativity • Management
• Customer Experience • Product
Strategy

TECHNICAL SKILLS

Languages:

C/C++ • Python • JavaScript • SQL •
Verilog • MATLAB • HTML • CSS • Java

Technologies:

Unix/Linux • PyTorch • TensorFlow •
Docker • Kubernetes • Git • React.js •
Pandas • NumPy • Excel

Concepts:

Machine Learning • Natural Language
Processing • Compiler Design • Neural
Networks • Generative AI • Database
Management Systems • Software Systems

EXPERIENCE

GIRLSSCRIPT SUMMER OF CODE | OPEN SOURCE CONTRIBUTOR

2025 - Present

- Contributing to multiple open-source projects under the program, focusing on feature development, bug fixes, and documentation.
- Collaborated with diverse teams via GitHub workflows in an Agile development environment, delivering 10+ pull requests with maintainable code.

NVIDIA | SOFTWARE ENGINEER INTERN

Summer 2025 | On-site

- Engineered performance optimizations in Linux device drivers for NVIDIA GPUs, applying object-oriented design principles and software systems expertise to resolve NVBug bottlenecks, eliminate FPS drops (up to 30%), and enhance user experience.
- Refactored a 32,000-node singly linked list into an unrolled list (block size 16), leveraging advanced data structures and algorithms to reduce pointer dereferences by 16x, cut cache misses by 94% and lower traversal latency from 1.6 ms to 0.1 ms.
- Diagnosed and resolved a critical multithreading race condition, improving driver stability for 1000+ end-users.

EJY HEALTH | GENERATIVE AI RESEARCH INTERN

2024 | Remote

- Developed AI-driven data visualization pipelines, improving data processing speed by 40% and user engagement by 50%.
- Built a multimodal AI prototype for speech + text processing improving customer experience and engagement.

PROJECTS | SELECTED TECHNICAL PROJECTS

- Efficient Computations on ML Accelerators** — Enhanced a Vision Transformer (ViT) model, reducing computation cycles from 7 to 3 via algorithm-level optimizations; deployed optimized RTL on Pynq-Z2 and Kintex-7 boards for large speedups. [Github link](#)
- Chat E-Library Bot** — Built a RAG-powered chatbot (Hugging Face) to manage digital resources and improved query accuracy and UX in a fast paced environment; designed wireframes to streamline UI. [Github link](#)
- Sentiment Classification (IIT Jodhpur)** — Performed EDA and built multiple NLP pipelines, achieving 84% accuracy using tuned Random Forest and logistic regression models. [Github link](#)

ACHIEVEMENTS

- Secured 5th Departmental Rank in the academic year [2023-2024] at IIT Jodhpur.
- Secured AIR 13002 in JEE Advanced 2022 among the 1.6 lakh shortlisted candidates.

EXTRACURRICULAR ACTIVITIES

PRODUCT CLUB, IIT JODHPUR | HEAD (EVENTS)

2024 -- Present

ENTREPRENEURSHIP CLUB, IIT JODHPUR | HEAD

2023 -- 2024

