



# Krishi Patel

Roll No.:B20EE030

Bachelors in Technology

Electrical Engineering

Indian Institute Of Technology, Jodhpur

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GitHub | Website

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## EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
B.Tech	Indian Institute of Technology, Jodhpur	7.59	2020-2024
Senior Secondary	GSEB Board	87%	2020

## EXPERIENCE

- Bell system 24 (Tokyo)** June - Aug '23  
*Internship* Onsite
  - Developed a **GUI** for configuration of **AVAYA** (A cloud communication service and workstream collaboration provider).
  - Involved learning the concepts of **Networking, Vector Programming, AWS and remote environments.**
  - Tech-stack: **ReactJS, ReactFlow, Node, Express, BellCloud+, AWS, EC2 Linux2, SOAP API.**
- IIT Jodhpur** Nov - Dec '23  
*UG Student researcher*
  - Implemented the **Neural Tangent Kernel** based approach of **fourier feature mapping** of input feature space comprising of **high frequency functions in low dimensional domains** to make to **convergence of MLPs exponentially** faster without sacrificing the accuracy of the model.
  - Also made the comparisons of the effects of various distributions like **Gaussian, poisson, bernoulli, etc** of the feature transformations on the train and test loss.
  - Tech-stack: **jax, OpenCV.**

## PROJECTS

- Movie Recommendation System** Github  
*May 2022* Website
  - Developed a **server side Web app** which recommends the top 4 movies depending on user experience.
  - Implemented using amalgamation of 3 techniques. **Hybrid Recommendation using Regression, Content-Based Recommendation and Collaborative Recommendation.** Output with the best accuracy was given.
  - Tech-stack: Python, Pandas, Scikit-Learn, Flask, TMDB API, TailwindCSS
- BOMB.MONEY Dashboard** Github  
*Jan, 2023* Website
  - Developed a **Dashboard** for a crypto trading website **Bomb.money** which provides users with a **real time** comprehensive view of their trading activities and assets, with a focus on functionalities and user experience.
  - The functionalities like **reading and presenting** the real time crypto data and allowing the users to **purchase, claim and redeem bonds**, etc. were implemented.
  - Tech-stack: ReactJS, Material UI.
- GOSSIP 0.0** Github  
*Jan. 2024*
  - Build a **Gossip protocol** over a **dynamic peer-to-peer network** to broadcast messages and check the **liveness** of connected peers **simultaneously.**
  - Implemented a proper message format for **gossips, liveness requests and responses and as well as reporting dead nodes** being exchanged simultaneously using **multi-threading and socket programming.**
  - Tech-stack: Python, socket, threading, hashlib
- End to end DS project** Github  
*June. 2024*
  - Implemented an **end-to-end** data science project focused on analyzing and predicting student performance.
  - The project adheres to best practices in software development and data science, including **EDA, feature engineering, custom exception handling, logging, creating training and prediction pipelines** and a well-organized structure for code, data, and artifacts.
  - Tech-stack: Python, sklearn, seaborn, matplotlib, pandas, numpy

## KEY COURSES TAKEN

- Data Structures & Algorithms, Computer Networks, DBMS, OS, Pattern recognition & Machine Learning

## TECHNICAL SKILLS

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- **Programming:** C/C++, Python, JavaScript, SQL
  - **Tools & Technologies:** Git, AWS, CUDA
  - **Libraries/Frameworks:** Pandas, Numpy, Scikit-Learn, TensorFlow, OpenCV, Matplotlib, pyrtools, jax
  - **Web Skills:** ReactJS, Flask, NodeJS, ExpressJS, EJS, Bootstrap, Material-UI, HTML/CSS/JS
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