TANISH RAJ SINGH

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EDUCATION

Manipal University Jaipur: B.Tech in Computer Science and Engineering (2022-26)
BVB Vidyashram Jaipur: 10th - 89% (2019-20), 12th (PCM)- 80% (2021-22)

SKILLS

Technical Skills: Python, C, MySQL, HTML, CSS, JavaScript, ReactJS, NodeJS

Concepts: Data Structures, Algorithms, Object Oriented Programming, Machine Learning, Data Analysis, Problem Solving, Natural Language Processing

Tools and Libraries: VS Code, Google Collab, GitHub, Jupyter Notebook, Pandas, NumPy, Sklearn, MatPlotLib, TextBlob

EXPERIENCE

Machine Intelligence and Data Analytics Intern June 2023 - July 2023
RAMAN Lab, Malviya National Institute of Technology Jaipur (On Site)

- Developed sentiment analysis model on IMDB data using NumPy, Pandas, Nltk and Maplotlib in Python
- Contributed on optimizing model accuracy by 70% with machine learning techniques
- Enhanced skills in Python, data preprocessing and NLP problem-solving

Front-end Development Intern May 2024 - July 2024
Vital Skills (Remote)

- Developed a demo Ecommerce website to test advanced filtering feature with ReactJS
- Created reusable components with React hooks, reducing load time by 30% and improving search efficiency by 40%
- Designed responsive interfaces with CSS modules, boosting engagement by 25%

PROJECTS

1. GINNIs CART: Developed an Ecommerce website using ReactJS with an advanced filtering feature to enhance user experience with dynamic and efficient footwear searches. Used react routing and DOM manipulation for the development process.
Technology Stack: HTML, CSS, JavaScript, ReactJS (URL)

2. AI Chatbot and Visionbot: Created an AI chatbot and visionbot using LLM from Google gemini API and generative AI with Gradio integration. AI chatbot is capable of answering questions based on text prompts and the VisionBot enhances this functionality by analyzing images to provide contextually relevant responses.
Technology Stack: Python, Gemini API, Gradio API (URL)

3. Loan Payment Difficulties Prediction: This project aims to predict whether a client will experience payment difficulties on a loan based on detailed information provided at the time of loan application, as well as data on previous loan applications. Using Python libraries and a machine learning model, we achieved a prediction accuracy of 92% with an F1 score of 0.14 by applying SMOTE to balance the dataset.
Technology Stack: Python, Pandas, SkLearn, Numpy, Seaborn, Matplotlib (URL)

CERTIFICATIONS AND PARTICIPATION

- Design and Analysis of Algorithms by IIT Madras | NPTEL
- J.P. Morgan Software Engineering Virtual Experience | Forage (URL)
- Accenture UK Developer and Technology Virtual Experience Programme | Forage (URL)
- Data Analysis with Python by University of Pennsylvania | Coursera
- Python Data Structures and Algorithms | Udemy
- Team Lead, Flipkart Grid 6.0 | Unstop (URL)