Viraj Prajapati

+919510470074 | prajapativiraj234@gmail.com

Viraj Prajapati | Virajprajapati22 | Viraj22

Surat, Gujarat - 395004, India

Objective

Seeking a challenging position in software development and machine learning engineering to leverage my expertise in full stack development (React JS, Node JS, Next JS) and machine learning, specifically in natural language processing (NLP) and recommendation systems. Aiming to contribute to innovative projects and practical problem-solving in web and application development, as well as data-driven solutions.

Experience

- **Codage Habitation LLP [🌐]** *Jan 2023 - Dec 2023*
  Software Development Intern Ahmedabad, India
  - Leveraged React and Next.js to build responsive and dynamic web applications, enhancing user experience and performance.
  - Developed RESTful APIs using Node.js, ensuring efficient data handling and integration with frontend components.

Education

- **Dhirubhai Ambani Institute of Information and Communication Technology (DAIICT)** *July 2023 - April 2025*
  M.Tech - ICT Gandhinagar, India
  - CGPA: 8.13
- **Gujarat Technological University (GECP)** *July 2019 - April 2023*
  B.E - CSE Patan, India
  - CGPA: 8.05
- **Shree Swaminarayan Gurukul Eng Med School (SSGV)** *July 2017 - April 2019*
  GHSEB Surat, India
  - Percentage: 70%

Projects

- **GitFix: Web Application** *April 2023 - Present*
  Tools: Next.js, React Redux, Firebase, GitHub Octokit REST API [🐙]
  - Developed a GitHub repository management application using GitHub Octokit REST API to efficiently organize and track issues.
  - Implemented a structured approach to managing repository issues, enhancing workflow and team collaboration.
  - Created a seamless interface for handling repository tasks and issue tracking using the GitHub Octokit API.
- **AgriLeaf: Agricultural Crop Disease Identification and Solution Platform** *August 2024 - Present*
  Tools: Next.js, Python, FASTApi, Machine Learning, LLM, Firebase [🐙]
  - Developed a web application using Next.js, Python, and FASTApi, enabling farmers to upload crop images, automatically identify diseases, and receive detailed solutions.
  - Developed and Integrated machine learning models and LLMs to accurately diagnose crop diseases and provide actionable guidance for treatment and prevention.
  - Utilized Firebase for real-time data storage and user authentication, ensuring a seamless and secure experience for farmers.
- **Ranking and Analyzing Social Media Influencers (Research)** *Jan 2024 - Present*
  Tools: Machine Learning(IR, NLP, Recommendation System) [🐙]
  - Developed a system to recommend micro-influencers for brands by leveraging detailed insights from both brand and influencer profiles.
  - Scraped Instagram data, analyzing images and text from 210 micro-influencers across 10 distinct categories.
  - Utilized machine learning techniques to analyze captions, comments, and images from influencer posts.
- **CollabNET: Database Management System** *March 2022*
  Tools: PostgresQL, SQL [🐙]
  - Developed an ER diagram to model the complex relationships and entities within a company's employee management system, including departments, teams, projects, policies, events, and resources.
  - Managed the integration of various components like employee records, project tracking, policy management, and event scheduling, enhancing the system's ability to handle diverse HR functions.

NLP Projects

- **Icare24x7** *Oct 2024 - Present*
  Tools: Python, Pytorch, DialoGPT [GitHub]
  - Fine-tuned the pre-trained DialoGPT model using the HOPE dataset to create Eva, a chatbot providing emotional support and resources for current mental health problems.
  - Integrated reinforcement learning agents to enhance user interactions, allowing the chatbot to adapt and improve responses based on user feedback.
- **Review Disagreement with contradiction Analyzer** *Sept 2024 - Present*
  Tools: Python, Pytorch, BERT/T5 [GitHub]
  - Developed a novel approach to detect contradictions and disagreements in reviewer comments using the DISAPERE dataset, which includes a diverse collection of product reviews.
  - Employed advanced natural language processing techniques to analyze sentiment and identify conflicting opinions among reviewers, enhancing the understanding of sentiment dynamics.
- **TextSum Pro: Text Summarization System** *Nov 2024*
  Tools: Python, Pytorch, BERT/T5 [GitHub]
  - Developed a state-of-the-art text summarization system featuring both a custom-built encoder-decoder model and a fine-tuned pre-trained model, significantly enhancing summarization accuracy and coherence.
  - Utilized the CNN/Daily Mail dataset, which contains over 300,000 diverse news articles and corresponding summaries, to effectively train and validate the models.

Skills

- **Programming Languages:** C, C++, Python, Javascript, Java
- **Web Technologies:** React JS, Next JS, Gatsby JS, Node JS, Tailwind CSS
- **Database Systems:** PostgresQL, MySQL
- **Data Science & Machine Learning:** TensorFlow, Pytorch, Numpy, Pandas, Scikit-learn
- **Cloud Technologies:** AWS Cloud, Google Cloud
- **DevOps & Version Control:** Github, BitBucket
- **Specialized Area:** NLP, Machine Learning, Software Development
- **Research Skills:** Data Collection & Analysis, Experimental Design, Quantitative & Qualitative Methods

Achivements

- **Competition Achievement** *Aug 2024*
  HackOut'24, Synapse DAIICT [Web]
  - Achieved 11th place out of 400+ teams
- **Competitive Programming**
  Platforms: Codeforces, Codechef, Leetcode
  - $\boldsymbol{Codeforces}$ **:** 1050+ ratings
  - $\boldsymbol{CodeChef}$ **:** 1200+ ratings
  - $\boldsymbol{LeetcodeContest}$ **:** 1450+ ratings