Raj

Full Stack Web Developer|AI/ML |Software Engineer

theraj714@gmail.com | 9931428818 | Punjab

GitHub | Linkedin | Portfolio

EDUCATION

LOVELY PROFESSIONAL UNIVERSITY   August 2023 - August 2027
Computer Science B.Tech Cse   PUNJAB
CGPA: 7.5

EXPERIENCE

HEADSTATER AI | Full stack Developer   Remote USA | June 2024 – August 2024

- Developed and deployed AI solutions like a RAG-based b2b solution, Medical Image Processing AI, and various LLM models
- Utilized modern tech stacks: Pincone, RAG, Next.js, and TypeScript for building scalable, efficient systems
- Collaborated on AI-focused projects, enhancing functionalities and optimizing performance across applications.

GIRLSCRIPT SUMMER OF CODE (GSSOC) | open source contributor   Remote | October 2024 – November 2024

- Designed and implemented both **UI and code** for a **React component library** , enhancing user experience and functionality.
- Contributed to the open-source project **Dragonfly** , a Redis alternative, focusing on performance improvements.
- Developed a **crypto insights Telegram bot** for real-time cryptocurrency updates.
- Collaborated with diverse teams to drive project success and refine technical skills in an open-source environment.

SKILLS

Programming Languages	C++, Python, React, Nextjs, javascript, typescript, C, Nodejs
Tools / Platforms	Git, vscode, linux, github, gitlab, pinecone, Docker, Hugging Face Transformers, AWS (Amazon Web Services), Google Cloud Platform, Microsoft Azure
Databases	MongoDB, Sqllite, Redis

PROJECTS / OPEN-SOURCE

KRYO AI (LLM POWERED SEARCH ENGINE) | Link   TypeScript, CSS, Nix, JavaScript,firebase,React,Nodejs

- **Project Objective** : Developed an LLM-powered search engine to enhance information retrieval through natural language processing.
- **Problem Statement** : Improved upon traditional keyword-based searches by offering context-aware, conversational responses.
- **Features** :
- Utilizes a fine-tuned LLM to understand user intent and deliver personalized results.
- Provides detailed information, including source credibility and summaries for each result.
- Implements user feedback for refining future recommendations.
- **Impact** : Enhanced user engagement and satisfaction by delivering relevant, context-rich responses that streamline the search experience.

HELIX (MEDICAL IMAGE DIAGNOSIS AI PLATFORM) | Link

TypeScript, CSS, Nix, JavaScript,Nextjs,Nodejs

- **Project Objective** : Developed an AI-driven solution integrated within a comprehensive medical platform to enhance diagnostic accuracy.
- **Problem Statement** : Addressed the challenges of inaccurate and time-consuming diagnoses from imaging data, including MRI scans, X-rays, and ECGs.
- **Impact** : Effectively impacted **500 users** with the final release, significantly improving diagnostic efficiency and overall patient care within the healthcare ecosystem.

NEXT-CHAPTER (BOOK RECOMMENDATION ENGINE) | Link

TypeScript, CSS, Nix, JavaScript,Nextjs,Nodejs

- **Project Objective** : Developed an AI-powered book recommendation system integrated within a comprehensive platform to enhance user experience.
- **Problem Statement** : Addressed the challenge of discovering relevant books by providing personalized recommendations based on user preferences and reading history.
- **Features** :
- Displays detailed information for each recommended book, including **cover image** , **author** , **ISBN** , and **plot summary** .
- Provides insights into why specific books are recommended, highlighting their similarities to previously read titles.
- Incorporates a user upvote system to refine recommendations based on community feedback.
- **Impact** : Successfully improved user engagement and satisfaction by delivering tailored book suggestions that align with individual interests and reading habits.

LOVE AI | Link

TypeScript, CSS, Nix, JavaScript,Nextjs,Nodejs , Firebase

- **Project Objective** : Developed a multimodal AI system utilizing an open-source fine-tuned large language model (LLM) to enhance data processing and user interaction.
- **Problem Statement** : Addressed the limitations of traditional AI models by integrating multiple data types, such as text, images, and audio, to provide a more comprehensive understanding of user queries.
- **Capabilities** :
- Processes and analyzes diverse inputs simultaneously, enabling richer context and more accurate outputs.
- Generates detailed responses, including relevant information like images, summaries, and explanations based on user interactions.
- Utilizes advanced algorithms for quick processing, ensuring fast response times even with complex queries.
- **Impact** : Successfully improved user engagement and satisfaction by delivering personalized and context-aware interactions that adapt to individual preferences and needs.

CERTIFICATIONS

- MongoDB logo MongoDB Developer's Toolkit: CRUD Mastery with Node.js, Java, Python, C# - MONGODB
- University of Minnesota logo Software Development Processes and Methodologies - UNIVERSITY OF MINNESOTA
- SQL (Advanced) Certificate - HACKERRANK
- J.P. Morgan Software Engineering Job Simulation - FORAGE
- Infosys Springboard Python - INFOSYS
- Computer Networking - GOOGLE
- Postman Api Student Expert - POSTMAN