Harsh Kumar

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OBJECTIVE

Motivated and analytical individual seeking an entry-level role in web development along with practical skilled knowledge of data science, where I can leverage my analytical skills and passion for data-driven insights to contribute to impactful projects and advance my career.

EDUCATION

MIT ADT University   Pune, Mh, India
Bachelor of Technology in Information Technology - 7.30 CGPA   *Aug. 2021 – July 2024*

MIT WPU School of Polytechnic   Pune, Mh, India
Diploma in Information Technology - 92.13%   *Aug. 2018 – Aug 2021*

St. Judes Vidyalaya   Begusarai, Br, India
Schooling 10th - 80%   *Mar 2017 – Apr 2018*

TECHNICAL SKILLS

Languages: Python, SQL, Java, Angular 14, 18, JavaScript, HTML, CSS
Database Management: MySQL, MongoDB, .net core 6
Machine Learning: TensorFlow, Keras, Scikit-Learn,SLM, LLM, LangChain, LlamaIndex
Developer Tools: Git, Jupyter, VS-Code, Visual studio IDE, PyCharm, Docker, Jenkins, AWS
Additional Skills: Data Visualization, Data Cleaning, Statistical Analysis, Predictive Modeling, Fine tuning, LoRA training, RAG system Building

EXPERIENCE

Associate Software Engineer   Nov 2024 – Mar 2025
(Fusionstak LLC)   *Pune, India*

- Worked with .net core, EF core for backend API development and Angular to create frontend module.
- Contributed to building the JSON configuration editor and previewing controls using formly angular component, it speed up form creation by 45% faster.
- Wrote SQL codes to optimize the data retrieval and reduced redundant usage of API calls.
- Developed frontend module features for multiple services.
- Optimized backend third party API and reduced the load time upto 1.5ms.

Software Engineer Intern   Jan 2024 – Jul 2024
Centre for Development of Advanced Computing (CDAC)   *Pune, India*

- Contributed to data pipeline design and optimization for large-scale LLM projects, focusing on efficient data processing and storage.
- Implemented **data preprocessing** techniques to improve the quality and consistency of input data for machine learning models.
- Enhanced information retrieval using **LangChain**, optimizing data handling for large language models (LLMs).
- Developed APIs for seamless data integration, ensuring accessibility and scalability in a high-performance computing (HPC) environment.

Software Development Intern   Apr 2023 – June 2023
Ministry of Housing and Urban Affairs, Govt. of India   *New Delhi, India*

- Developed and optimized a web platform for local shopkeepers, enabling digital access to services.
- Used **data analytics** to track user engagement and optimize platform features for better user experience.
- Recognized for exceptional performance, selected among the top 5 projects for presentation to senior officers.
- Implemented version control with **GitHub** for efficient collaboration and code management.

Research and Development Engineer   Jul 2022 – May 2023
Eastern Royal Company   *Pune, India*

- Implemented AWS-based cloud and storage solutions, optimizing data storage and retrieval processes.
- Analyzed large datasets to identify trends and provide data-driven recommendations.
- Utilized **AWS** services to enhance storage, hosting, and analytical capabilities for client projects.

Projects

MrTouride | *Unity 3D, Flutter, IoT, Machine learning(CNN)*   Jan 2023 – April 2023
- Led a hackathon-winning project, contributing to idea generation and development of machine learning algorithms.

- Developed a VR-based project for tourism, optimizing code for a smoother experience.
- Integrated touch sense feature, enhancing user immersion and interaction.
- Created a community platform for sharing tour data, optimizing data processing algorithms for efficiency.
- Optimized equipment connectivity, reducing latency by up to **30ms**.
- https://github.com/thegeekygamechanger/MrTouride.git

ApnaGPT | *ollama, Langchain, Python, Streamlit*   Mar 2024 – Apr 2024
- Developed a GPT chatbot, optimizing code for improved response time.
- Utilized **8B** parameter LLaMA3 and Mistral models, optimized RAG model for better performance.
- Implemented RAG for customized data source addition, optimizing model for flexibility.
- Implemented Streamlit framework for frontend and backend sync, optimizing full user interaction.
- Evaluated the effectiveness of natural language processing models using **BLEU** and **ROUGE** metrics, achieving scores of **BLEU: 35** and **ROUGE: 0.5**, indicating high-quality text generation.
- https://github.com/thegeekygamechanger/ApnaGPT.git

KitaabPadhoIndia | *HTML, CSS, JavaScript, AWS, PHP, LLM, RAG, Machine Learning*   July 2023 – May 2024
- Leading the development of a web portal based on advanced web technology and own copyrighted idea.
- Optimized code for improved performance and scalability, achieving a **23%** increase in efficiency.
- Implemented LLM chatbot support using RAG for integrating external data sources for user interaction and information retrieval.
- Facilitated the sale, purchase, and rental of study materials within a geographical area, enhancing user convenience.

- https://github.com/thegeekygamechanger/kitaabpadho.git

Customer Churn Prediction | *Scikit-learn, pandas, streamlit, Python*   Oct 2023 – Jan 2024
- Implemented a machine learning model to predict customer churn using Catboost and Neural Networks.
- Utilized machine learning model framework to develop and train deep learning models, achieving an accuracy of **85%**.
- Visualized prediction results in Streamlit, enabling actionable insights for business retention strategies.
- Optimized the model's performance by feature scaling and hyperparameter tuning, improving prediction accuracy by **10%**.
- https://github.com/thegeekygamechanger/Customer-churn-application.git

Accomplishments

- Smart India Hackathon 2020: Qualified in software category, under top **3 teams** qualified for finals.

- **1st Position** at **IIIT Pune Ideathon 2k22** among **50 teams**.

- AIT, Pune No-code Startup: Qualified for finale.

- **1st Position** in Paper Presentation at **MIT CORER, Solapur** among **14 teams**.

- Innohacks 2.0 Finalist: Among **2215 participants** at KIET Group of Institutions, Delhi NCR.

- HackMITWPU: Qualified for finals in the top **10 teams**.

- Secured top **15%** position in **CodingNinja Codekaze 2023**.

- Smart India Hackathon 2023: Qualified in hardware category in internal hackathon.

Publications

- i-kisaan technical paper published in IJCA

- Copyright registered for KitaabpadhoIndia under copyright office, Gov.of India-L-122712/2023

- Copyright registered for Application development on the problems faced by local and rickshaw drivers and the riders within their area under copyright office, Gov. of India-L-135919/2023

HackerRank: harshkumargoluku1 Leetcode: harshkumargoluku1 Portfolio: Harsh Kumar