

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 <i>Bachelor of Technology in Information Technology - 7.30 CGPA</i>	Pune, Mh, India Aug. 2021 – July 2024
MIT WPU School of Polytechnic <i>Diploma in Information Technology - 92.13%</i>	Pune, Mh, India Aug. 2018 – Aug 2021
St. Judes Vidyalaya <i>Schooling 10th - 80%</i>	Begusarai, Br, India 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 <i>(Fusionstak LLC)</i>	Nov 2024 – Mar 2025 Pune, India
<ul style="list-style-type: none">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 <i>Centre for Development of Advanced Computing (CDAC)</i>	Jan 2024 – Jul 2024 Pune, India
<ul style="list-style-type: none">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 <i>Ministry of Housing and Urban Affairs, Govt. of India</i>	Apr 2023 – June 2023 New Delhi, India
<ul style="list-style-type: none">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 <i>Eastern Royal Company</i>	Jul 2022 – May 2023 Pune, India
<ul style="list-style-type: none">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

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