

# 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

<b>MIT ADT University</b> <i>Bachelor of Technology in Information Technology - 7.30 CGPA</i>	Pune, Mh, India Aug. 2021 – July 2024
<b>MIT WPU School of Polytechnic</b> <i>Diploma in Information Technology - 92.13%</i>	Pune, Mh, India Aug. 2018 – Aug 2021
<b>St. Judes Vidyalaya</b> <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

<b>Associate Software Engineer</b> <i>(Fusionstak LLC)</i>	Nov 2024 – Mar 2025 Pune, India
<ul style="list-style-type: none"><li>Worked with .net core, EF core for backend API development and Angular to create frontend module.</li><li>Contributed to building the JSON configuration editor and previewing controls using formly angular component, it speed up form creation by 45% faster.</li><li>Wrote SQL codes to optimize the data retrieval and reduced redundant usage of API calls.</li><li>Developed frontend module features for multiple services.</li><li>Optimized backend third party API and reduced the load time upto 1.5ms.</li></ul>	
<b>Software Engineer Intern</b> <i>Centre for Development of Advanced Computing (CDAC)</i>	Jan 2024 – Jul 2024 Pune, India
<ul style="list-style-type: none"><li>Contributed to data pipeline design and optimization for large-scale LLM projects, focusing on efficient data processing and storage.</li><li>Implemented <b>data preprocessing</b> techniques to improve the quality and consistency of input data for machine learning models.</li><li>Enhanced information retrieval using <b>LangChain</b>, optimizing data handling for large language models (LLMs).</li><li>Developed APIs for seamless data integration, ensuring accessibility and scalability in a high-performance computing (HPC) environment.</li></ul>	
<b>Software Development Intern</b> <i>Ministry of Housing and Urban Affairs, Govt. of India</i>	Apr 2023 – June 2023 New Delhi, India
<ul style="list-style-type: none"><li>Developed and optimized a web platform for local shopkeepers, enabling digital access to services.</li><li>Used <b>data analytics</b> to track user engagement and optimize platform features for better user experience.</li><li>Recognized for exceptional performance, selected among the top 5 projects for presentation to senior officers.</li><li>Implemented version control with <b>GitHub</b> for efficient collaboration and code management.</li></ul>	
<b>Research and Development Engineer</b> <i>Eastern Royal Company</i>	Jul 2022 – May 2023 Pune, India
<ul style="list-style-type: none"><li>Implemented AWS-based cloud and storage solutions, optimizing data storage and retrieval processes.</li><li>Analyzed large datasets to identify trends and provide data-driven recommendations.</li><li>Utilized <b>AWS</b> services to enhance storage, hosting, and analytical capabilities for client projects.</li></ul>	

## PROJECTS

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### 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

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- 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

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- 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](#)