

Kumar Mahadik

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SKILLS SUMMARY

- **Languages:** Java, Python, C++, JavaScript
- **Frameworks:** HTML and CSS, Tailwind CSS, React, Flask, Python Streamlit
- **Tools/Platforms:** MySQL, MongoDB, Docker, OpenCV, GitHub, UI Path, Automation Anywhere
- **Domain Skills:** Machine Learning, NLP, RPA, Computer Vision, Desktop Application Development

PROJECTS

- **News-Insight | News Research Tool:** Jun 2024
 - Developed a tool for effortless retrieval and analysis of stock market and financial news from article URLs.
 - Utilized LangChain's UnstructuredURL Loader for processing URLs, OpenAI's embeddings for constructing embedding vectors, FAISS for similarity search, LLM (ChatGPT) for user interaction, and Python Streamlit for a user-friendly UI.
 - Gained expertise in NLP and embedding techniques, generative AI, technology integration, and user-friendly UI design.
- **Docker-Pilot | Docker Automation Platform:** Apr 2024
 - Developed an Automate Docker operations (pulling images, running/stopping containers, checking stats) for efficient container management.
 - Used Python for automation, React for frontend, Flask for backend, Docker for containerization, and Tailwind CSS for styling.
 - Gained proficiency in integrating React for frontend development, mastered Flask for backend/frontend integration, automated Docker operations with Python, and utilized Tailwind CSS for responsive UI design.
- **AI-Enabled Water Well Predictor | ML based Water Well Predictor:** Mar 2024
 - Made an AI-enabled water well predictor using Python and ML models to assess feasibility, stable water levels, and drilling techniques based on geological formations.
 - Utilized Python for implementation, employing K-Neighbors Classifier for geological formation classification and Random Forest Regressor for predicting feasibility and stable water levels with R2 Score of 90%.
 - Enhanced proficiency in data preprocessing techniques, implemented ML models for classification and regression tasks, and improved model performance through hyperparameter tuning methods.
- **Quiz-Spark | Quiz Platform:** Apr 2023
 - An interactive quiz platform, Quiz-Spark, offering multiple-choice questions and tracking accuracy and scores.
 - Developed using Java, with Swing for GUI development and MySQL for database integration.
 - Acquired experience in Swing for desktop GUI development, connected application to MySQL for data storage, and implemented user registration for personalized access and performance tracking.

CERTIFICATIONS

- **Natural Language Processing with Classification and Vector Spaces:** Mar 2024
Coursera – DeepLearning.AI
- **Short Term Course on Desktop Application Development Using Java:** Apr 2023
Lovely Professional University
- **Internship On Data Science and AI:** Aug 2022
Pantech Solutions
- **Industrial Training On RPA, AI, ML and Web Development:** May 2021
ProAzure PVT LTD Pune

EXTRACURRICULAR

- Participated in Hack-Verse, a hackathon organized by the School of Computer Science & Engineering, and was shortlisted for the final round. Mar 2024
- Participated in Celesta 1.0 hackathon organized by Department of Student Research and Project association with the School of Bioengineering and Biosciences Feb 2024

EDUCATION

- **Lovely Professional University** Jalandhar, Punjab
Bachelor of Technology – Computer Science and Engineering | CGPA: 7.00 Aug 2022 - July 2025
- **Abhaysinhraje Bhonsle Institute of Technology** Satara, Maharashtra
Diploma – Computer Engineering | Percentage: 84.51% Aug 2020- July 2022