# Kumar Mahadik

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## SKILLS SUMMARY

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

## PROJECTS

- **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.

- **Handwritten Digit Recognition | ML Based Digit Recognition via SVM:**    Nov 2023
  - Build a handwritten digit recognition system using SVM in Python for precise classification.
  - Employ SVM in Python, optimize model via hyperparameter tuning, enhancing generalization and reducing overfitting, and archived 98% accuracy.
  - Obtained expertise in SVM for image classification, refined hyperparameter tuning skills, and addressed overfitting in ML models.

- **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 – DeepLearing.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: 6.78    Aug 2022 - July 2025

- **Abhaysinhraje Bhonsle Institute of Technology**    Satara, Maharashtra
  Diploma – Computer Engineering    | Percentage: 84.51%    Aug 2020- July 2022