# Het Sonkusare

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## SUMMARY

MCA student specializing in Artificial Intelligence and Machine Learning with a BCA background. Proficient in Java, SQL, and database management, with experience in clean coding, debugging, and developing scalable AI/ML models. Strong understanding of software engineering principles, with interest in deep learning, LLMs, and integrating AI into real-world software systems.

## EDUCATION

**BCA – Bachelor of Computer Application** 2022 - 25
Rai University | **CGPA – 7.50/10**
**MCA – Master of Computer Application** Present
Rai University

## SKILLS

**Languages :** Java | Python | JavaScript | Html | CSS | Bootstrap | Node.js | Express.js
**Database :** MySQL | MongoDB | PostgreSQL
**Python Library :** NumPy | Pandas | Matplotlib | Seaborn | Scikit-Learn | TensorFlow
**AI/ML Tools :** Google Colab | Jupyter Notebook | Kaggle | Streamlit
**Version-Control / Tools :** GitHub | VS Code | Postman

## PROJECTS

### Rock Vs Mine Prediction – ML Project

*Python, NumPy, Pandas, Scikit-learn, Logistic Regression, Data Preprocessing*

- Developed a Rock vs. Mine prediction model using Python, leveraging NumPy for numerical operations and Pandas for data manipulation and analysis.
- Employed scikit-learn to implement Logistic Regression, effectively classifying sonar data as either "rock" or "mine."
- Utilized train-test split for robust model evaluation and calculated accuracy scores to validate predictive performance.
- This project demonstrates proficiency in machine learning workflows, data preprocessing, and model interpretation.

### Movie Recommender System

*Python, Pandas, NumPy, Scikit-learn, NLTK*

- Developed a content-based movie recommendation system that suggests similar movies based on a movie's overview, genres, keywords, cast, and crew.
- Pre-processed and cleaned a large dataset from Kaggle, handling missing values and converting text-based features into a structured format suitable for machine learning
- Utilized Count-Vectorizer to transform movie metadata into a feature vector and calculated cosine similarity to determine the similarity score between movies.
- Implemented a recommendation function that efficiently retrieves and ranks the top 5 most similar movies, providing personalized suggestions to users.
- Employed data persistence techniques using the pickle library to save and load the model and data, optimizing the system for quick and efficient recommendations.

### Next Gen  AI Code Assistant

*Python, Flask, HTML, CSS, PIL, Tesseract OCR, Groq API, E2B Code Interpreter*

- Built a web-based AI tool that allows users to upload screenshots of coding problems and get instant Python solutions using OCR and LLMs.
- Integrated Tesseract OCR to extract text from uploaded images and processed them for AI interpretation.
- Used Groq API to generate context-aware Python solutions and E2B sandbox to execute and validate code in real-time
- Designed a clean, responsive frontend with HTML & CSS for seamless user experience and interaction.

### Nakama-Ride – Uber Clone

*ReactJS, Node.js, Express.js, MongoDB, Google Maps API*

- Developed a full-stack ride-booking platform simulating Uber functionality with real-time map integration using Google Maps API.
- Implemented user authentication, ride request system, and dynamic location tracking using MERN stack.
- Enabled seamless communication between driver and rider interfaces with real-time ride status updates.
- Designed a responsive UI with optimized user flow for both mobile and desktop experiences.
- Enabled smooth communication between frontend and backend for efficient booking operations.

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## AI-AGENTS

### AI Email Assistant

**LINK**

*n8n, Google Gemini API, Email API*

- I created an AI email assistant using n8n and the Google Gemini API to automate email drafting. The system takes a user's details and tone, then dynamically generates a complete and polished message. This project demonstrates my ability to seamlessly integrate powerful LLMs and various APIs for a practical, real-world solution, significantly boosting productivity and efficiency.

### Restaurant Inventory System

**LINK**

*n8n, Google Gemini API, Google Sheets*

- . I developed a smart restaurant inventory system using n8n, leveraging the Google Gemini API to interpret and act on conversational input. The platform effectively manages stock levels for vegetables, tools, and supplies by interacting with a Google Sheets database. This project highlights my proficiency in seamlessly connecting powerful LLMs and various APIs to create a practical, data-driven solution that enhances operational efficiency.

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## CAREER INTERESTS

- AI/ML Engineer | AI Developer

## CERTIFICATIONS

- Machine Learning | Data Analysis | FSD