SONIKA RAMESH

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EDUCATION

M. Tech in Artificial Intelligence
REVA Academy for Corporate Excellence, REVA University

2024 - Present
Bengaluru

B.E in Artificial Intelligence and Machine Learning
Bangalore Institute of Technology

2020 - 2024
Bengaluru

SKILLS

Primary Language: Python, SQL.
Data Analysis: NumPy, Pandas, Matplotlib, Seaborn, Scikit-Learn.
Data Science and ML: Standard ML algorithm, Exploratory data Analysis tools, use of Agentic AI.
Computer Vision: OpenCV.
Frontend: HTML, CSS, JavaScript(basic). **Database:** MySQL Workbench.
Developer Tools: VS Code, Jupyter, Android Studio, XAMPP, Postman.
Soft Skills: Leadership qualities, Hardworking, Consistent, Teamwork, Problem Solving, Creative, Conflict Resolution, Efficient Communication, Adaptability, Decision making, Patient, and Active listener.

INTERNSHIP/EXPERIENCE

Aiqwip | Data Science Intern   *March 2024-July 2024*

- Managed client projects centered on generative AI, utilizing OpenAI's assistant and chat completion technologies.
- Responsibilities encompassed developing and fine-tuning AI models to enhance conversational capabilities, ensuring accurate and contextually relevant responses.

Patenti Technology Solutions Pvt. Ltd. | ML Intern   *Dec 2023 – Jan 2024*

- Collaborated on the "Text Extraction and Summarization for Legal Data" project, contributing to the development and implementation of solutions.
- Utilized Python, Natural Language Processing (NLP), and Text Summarization techniques to extract and summarize legal data, enhancing efficiency in information retrieval.
- Created and maintained the Technical Design document, ensuring a comprehensive understanding of the project's architecture and functionalities.

Prinston Smart Engineers | ML Intern   *Aug 2023 – Nov 2023*

- Underwent comprehensive training in machine learning classification and regression algorithms.
- Applied ML knowledge to work on a critical project involving the analysis of COVID-19 dataset.
- Conducted data preprocessing, feature selection, and model training using Python, scikit-learn, and TensorFlow.

YantroMitra Learning Technologies | AI & IoT Intern   *May 2023 – Jul 2023*

- Collaborated with the R&D team on various IoT projects, including:
- Smart Home Automation: Developed a prototype of AI-based home automation system that learns user preferences and adjusts lighting, temperature, and appliances accordingly.
- Health Monitoring Wearables: Worked on an IoT wearable device that collected health data and utilized AI to provide real-time health insights to users.

PROJECTS

Customer Churn Prediction & Analysis Dashboard (Power BI, SQL Server, Python)

- Designed a comprehensive Power BI dashboard to analyze customer churn using demographic, geographic, service usage, and contract data.
- Combined SQL Server for data preparation, Python for model deployment, and Power BI for interactive reporting and business insights.
- **Github Link:** https://github.com/iamsonuram/Churn_Analysis

SQLGenie – Natural Language to SQL Query Generator (Streamlit, Python, SQLite, Matplotlib)

- Built a Streamlit web app that converts natural language queries into SQL using the Mistral AI API.
- Used Python and SQLite for backend processing and database handling.
- Implemented automatic chart generation using Matplotlib based on query results.
- **Project Link:** https://github.com/iamsonuram/SQLGenie_streamlit
- **Deployed URL:** https://sqlgenie-sonikaramesh.streamlit.app

Container Damage Detection (Python, Machine Learning, OpenCV)

- Developed a machine learning-based image classification system to detect damage in shipping containers, training a model on a custom dataset of 105 damaged and 105 undamaged images, achieving an accuracy of 72% and precisely detecting damage of shipping container for uploaded images.
- **Project Link:** https://github.com/iamsonuram/ShippingContainer_Damage_Detection
- **Deployed URL:** https://container-damage-detect.streamlit.app/

Handwritten Digit Recognition (Python, Convolutional Neural Network, OpenCV)

- Using a convolutional neural network and OpenCV, developed features for image analysis and real-time webcam detection, demonstrating practical application of models for accurate digit identification.
- **Project Link:** https://github.com/iamsonuram/Handwritten_DigitRecognition

PUBLICATIONS

"Integrated ML-driven agricultural Technology Platform for Personalized Recommendations for Crop Selection, Resource Management, and Market Participation" (May 2024). Published in IJIRT. Volume 10 Issue 12, ISSN: 2349-6002
Paper link: https://ijirt.org/publishedpaper/IJIRT164583_PAPER.pdf

WORKSHOPS AND HACKATHONS

- Attended **Workshop on Machine Learning using Python** conducted by Princeton Smart Engineers.
- Competed in **Smart India Hackathon 2023**.
- Engaged in **Flipkart GRiD 5.0** - Software Development Track Hackathon.
- Contributed to **i.mobilothon 3.0** organized by Volkswagen Group Technology Solutions India
- Took part in **HackOn With Amazon** - Season 3 2023.
- Participated in **Tally CodeBrewers 2023** organized by Tally Solutions.

ACHIEVEMENTS

- Launched a college technical club – AlgoArena at RACE, REVA University, leading as Vice-president.
- Represented College at VTU Zonal Level and State Level Chess Tournament and won 1st and 4th place respectively (2022).
- Successfully organized "The Obstacle Course" event during the College's major fest "Manthan" as an event coordinator of the college's techno-cultural club "Node.ai" and received a Certificate of Appreciation for exemplary work.
- Actively participated in organizing and promoting blood donation drives to contribute to the community.
- Completed 15+ courses on Udemy, Great Learning, LinkedIn, Infosys Springboard, and Google Cloud Skills Boost platforms combined.