

# SONIKA RAMESH

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## ACADEMIC DETAILS

M. Tech in AI	2024 - Present	Reva University	In Progress
B.E in AI & ML	2020-2024	Bangalore Institute of Technology	8.0/10.0
Class XII (State Board)	2020	SBGNS Science PU College	88.0%
Class X (ICSE)	2018	BGS World School	83.67%

## Coursework

- Advanced AI, Machine Learning, Data Structures, Operating system, DBMS, Digital Image processing.
- IBM Cognitive.ai: Python for Data Science
- Infosys Springboard: Introduction to AI, Introduction to Data Science, Introduction to Deep Learning, Python Fundamentals, ML with tensor-flow, ML with Sci-kit Learn.
- Great Learning: Entrepreneurship Management.
- LinkedIn Learning: Advanced Java Programming.
- Udemy: Blockchain A-Z: Build a Blockchain, a Crypto and ChatGPT.
- Google Cloud Skills Boost: Created ML Models with BigQuery ML.

## INTERNSHIP/EXPERIENCE

### Company: Aiqwip | Role: 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.

### Company: Patenti Technology Solutions Pvt. Ltd. | Role: 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.

### Company: Princeton Smart Engineers | Role: 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.

### Company: YantroMitra Learning Technologies | Role: 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

### SQLGenie – Natural Language to SQL Query Generator

Mar 2025

- **Project Link:** [https://github.com/iamsonuram/SQLGenie\\_streamlit](https://github.com/iamsonuram/SQLGenie_streamlit)
- **Deployed URL:** <https://sqlgenie-sonikaramesh.streamlit.app>
- 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/Yashasrn33/Handwritten\\_DigitRecognition](https://github.com/Yashasrn33/Handwritten_DigitRecognition)
- 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.

**Flipkart Review Sentiment Analysis**

Nov 2023

- **Project Link:** <https://github.com/iamsonuram/Flipkart-review-sentiment-analysis>
- Using Natural language processing (NLP) techniques and employing Python, NLTK, and scikit-learn for text preprocessing, feature extraction, and model training developed a machine learning model to classify reviews into positive, negative, or neutral sentiments.

**Machine Learning Project: COVID-19 Analysis**

Sept 2023

- **Project Link:** [https://github.com/iamsonuram/ML\\_Classification\\_Regression](https://github.com/iamsonuram/ML_Classification_Regression)
- Conducted meticulous data preprocessing, strategically selected relevant features, and developed robust classification and regression models. Utilized Python along with industry-standard libraries such as scikit-learn and TensorFlow to implement and fine-tune these models.

**Iris Segmentation using DIP techniques**

Jul 2023

- **Project Link:** [https://github.com/iamsonuram/iris\\_segmentation\\_DIP](https://github.com/iamsonuram/iris_segmentation_DIP)
- Utilizing digital image processing techniques and machine learning models, employed a circular Hough transform for outer iris boundary detection and integrated edge detection along with intensity thresholding for accurate localization of the inner iris boundary, contributing to enhanced contrast and noise reduction in input iris images.

**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 Agent 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, can handle stress well, Problem Solving, Creative, Conflict Resolution, Efficient Communication, Adaptability, Decision making, Patient, and Active listener.**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 1<sup>st</sup> and 4<sup>th</sup> 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.