SONIKA R

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ACADEMIC DETAILS

B Tech (AI & ML Engineering)	2020-2024	BIT, Bangalore	7.3/10.0
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.
- 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: Create ML Models with BigQuery ML.

INTERNSHIP/EXPERIENCE

AI & IoT Intern   **YantroMitra Learning Technologies**   *Jun 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.

ML Intern   **Prinston Smart Engineers**   *Aug 2023 – Sept 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.

ML Intern   **Patenti Technology Solutions Pvt. Ltd.**   *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.

Data Science Intern   **Aiqwip**   *March 2024-May 2024*

- Managed client projects centered on generative AI, specifically 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.

PROJECTS

Agri-sales Management System   *Dec 2022*

- **Project Link:** https://github.com/iamsonuram/agrisalesmanagement
- Using SQL, HTML5, CSS3, XAMPP, and Visual Studio Code, developed a robust database and website that empower farmers to showcase their products and enable customers to place orders from multiple locations.

Multi-responsive webpage   *Mar 2023*

- **Project Link:** https://github.com/iamsonuram/multiresponsive_webpage
- Developed a responsive and intuitive web development platform. Provided users with a diverse selection of templates for rapid website creation. Implemented support features to assist users throughout the development process.

Iris Segmentation using DIP techniques

Jul 2023

- **Project Link:** 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.

Machine Learning Project: COVID-19 Analysis

Sept 2023

- **Project Link:** 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.

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.

Creating a Cryptocurrency using Blockchain

Dec 2023

- **Project Link:** https://github.com/Yashasrn33/Creating_cryptocurrecy
- Using Python, Flask, and SHA-256 encryption, implemented key blockchain features, including proof-of-work, consensus mechanisms, and secure transaction handling to develop a Cryptocurrency.

Handwritten Digit Recognition

Jan 2024

- **Project Link:** 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.

SKILLS

- **Languages:** C, C++, Java, Python (Proficient), SQL.
- **Data Science and ML:** Standard ML algorithms - regression, clustering, classification, Exploratory data Analysis tools (scaling, labelling, encoding, splitting, feature extraction and training models), use of sOpen AI Assistants.
- **Data Analysis:** NumPy, Pandas, Matplotlib, Seaborn, Scikit-Learn.
- **Computer Vision:** OpenCV.
- **Frontend:** HTML, CSS, JavaScript(basics).
- **Database:** MySQL.
- **Developer Tools:** VS Code, Jupyter, MATLAB, Android Studio, StarUML.
- **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

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

ACHIEVEMENTS

- Represented College at VTU Zonal Level and State Level Chess Tournament and won 4th place (2022).
- Successfully organized "Obstacle Course" event during College's major fest "Manthan" as an event coordinator of 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.