SONIKA R

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ACADEMIC DETAILS

B Tech (AI & ML Engineering)	2020-2024	BIT, Bangalore	8.57/10.0
Class XII (State Board)	2020	SBGNS Science PU College	90.0%
Class X (ICSE)	2018	BGS World School	85.0%

INTERNSHIP/EXPERIENCE

Designation: AI Intern **Personifwy** *Sept 2021-Mar 2022*

- Assisted in developing and optimizing machine learning models for natural language processing tasks.
- Contributed to research efforts, staying up-to-date with the latest advancements in AI and ML technologies.

Designation: Web Developer Intern **Exposys Data Labs** *Feb 2023 – Mar 2023*

- Designed and developed a responsive, user-friendly website from scratch using HTML, CSS, JavaScript, and Bootstrap.
- Implemented multi-responsive web design principles to ensure optimal user experience across various devices and screen sizes.

Designation: 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 an 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.

Designation: 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.

PROJECTS

Project Name 1: Agri-sales Management System *Jan 2023*

- **Project Link:** https://github.com/iamsonuram/agrisalesmanagement
- Developed a database management system (DBMS) for an Agri-Sales Management System.
- Designed a user-friendly interface for farmers and vendors to facilitate sales and purchases of agricultural products.
- Implemented features for inventory management, order tracking, and transaction recording.
- Utilized SQL and database design principles for efficient data management.

Project Name 2: 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.
- Offered customization tools for personalized website design.
- Implemented support features to assist users throughout the development process.

Project Name 3: Iris Segmentation using DIP techniques *Jul 2023*

- **Project Link:** https://github.com/iamsonuram/iris_segmentation_DIP
- Developed an efficient iris segmentation algorithm using digital image processing techniques. Enhanced contrast and reduced noise in input iris images.
- Detected the outer iris boundary using a circular Hough transform and localized the inner iris boundary using edge detection and intensity thresholding.
- Achieved highly accurate iris segmentation with an average accuracy of 95%, robustness to noise, and good generalization capability.

Project Name 4: Machine Learning Project: COVID-19 Analysis *Jul 2023*

- **Project Link:** https://github.com/iamsonuram/iris_segmentation_DIP
- Leveraged comprehensive machine learning training to tackle a critical project involving the analysis of a COVID-19 dataset.
- 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.
- Contributed to a practical understanding of predictive modeling and data-driven insights in the context of a global health crisis.

ACHIEVEMENTS

- Represented College at VTU State Level Chess Tournament and won 4th place.
- Represented College at VTU Bangalore Zonal Level Chess Tournament (Twice).
- Participant in Smart India Hackathon 2023.
- 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.

SKILLS

Programming Languages: Python, JavaScript, HTML, CSS

Machine Learning Libraries: scikit-learn, TensorFlow, Keras

Web Development Tools: Bootstrap

Data Analysis and Visualization: Pandas, Matplotlib, Seaborn

IoT Hardware Platforms: Arduino UNO

Version Control: Github

Problem-Solving and Algorithm Design.

Strong Communication and Team Collaboration Skills.

Fast Learner and Adaptable.

Interests: ML, DL, NLP, Big Data, Blockchain Technology, Data Science, Statistics**.**

POSITION OF RESPONSIBILITY

- **Event Coordinator** at **Node.ai** (College's Techno-cultural club). *Nov 2022 - ongoing*
- **Member** of United Karnataka Chess Association: UKCA REGN No.CBR201452. *Mar 2016 - ongoing*

EXTRACURRICULAR

- **Chess:** Passionate about chess and actively participate in tournaments.
- **Swimming:** Enjoy swimming as a recreational activity to stay fit.
- **Badminton:** Regularly play badminton with friends for fun and fitness.
- **Trekking:** Love exploring the outdoors and going on trekking adventures.
- **Reading Books:** Avid reader with a keen interest in literature and technology-related books.
- **Coding:** Enthusiastic about coding challenges on platforms like HackerRank and LeetCode.