Sandhya Kilari in

☎ +1 (517) 580-2675   📍 East Lansing, MI   ✉ kilarisa@msu.edu

EDUCATION

Michigan State University   East Lansing, MI
Master of Science in Data Science; GPA: 4.0   *Aug. 2023 – Present*
Courses Undertaking: Computation Foundations in AI, Data Mining, Applied Statistical Modeling for Data Scientists.
Courses Completed in Fall'23: Foundations of Data Science, Big Data Analysis, Mathematics and Statistics for Data Science

Siddaganga Institute of Technology   Tumakuru, India
Bachelors in Electronics and Communication Engineering; GPA: 3.62 (8.84/10.0)   *July 2016 – May 2020*

EXPERIENCE

AI Club at MSU   East Lansing, MI
Team Lead   *Oct. 2023 – Present*
- Led cross-functional team in developing a semester-long project for a responsive AI model, driving the creation of advanced smart glasses with a built-in camera, nanotechnology-enabled memory storage, and real-time language translation. Significantly enhanced user visual experience and communication by providing instant, translated information within their field of view.
- Participated in weekly workshops to acquire knowledge of new AI technologies, enhancing my skills, and staying current with the latest advancements.

Accenture Solutions Pvt. Ltd   Bengaluru, India
.NET Developer   *Nov. 2020 – July 2023*
- Managed three applications by performing tasks like migrations, password management, upgrading and testing according to Business requirements using C#, SQL Server, .NET Core MVC, JavaScript, Azure DevOps.
- Validated requests and facilitated proceedings for Microsoft client to fund Azure Platform Activities through Dynamics 365 CRM across various program types.
- Engaged in assessments pertaining to recommended trainings and certifications, diligently completing them. Additionally, proposed enhancement ideas within the application or tool to facilitate improvement.

Apsis Solutions *(Microchip Authorized Training Partner)*   Bengaluru, India
Trainee   *Summer 2018*
- Employing the training, I adeptly engaged with diverse processors in PCB circuit manufacturing, achieved proficiency in embedded C programming, and expertly harnessed Arduino microcontrollers like PIC 18 and ARM 7 to successfully conclude a project.
- **Internet of Things**: Used to exchange data with the production, operator and/or other connected devices.
- **MIT App Inventor**: Created an Android application that can run on Android devices for communication with users.

PROJECTS

- **Optimization of Luggage tracking System in Airports Using GPS**: System designed for tracking luggage boarding and deboarding using Smart RFID readers and an Android application to determine exact GPS location of luggage onboard.
- **Authenticity and Revocability for Wireless Body Area Network**: Model using cryptographic AES algorithm to provide security of data while transmitting wirelessly.
- **Smart Waste Management System:** Designed and developed an embedded system using Microcontrollers and Python for effective management of waste.
- **Automatic and Manual Vacuum Cleaner Robot**: Android based application system using a network of autonomous and cooperative cleaning robots for better hygiene management.
- **Live-Translate using AI**: Developed an AI and Python-based model to translate observed messages on signboards or notifications into users' native languages.
- **Heart Disease Assessment:** Developed a predictive model to assess heart disease risk through health attributes which holds vital importance for early invention and cost-effective prevention using python and Machine Learning.
- **Sentimental Analysis:** Designed a comprehensive and sophisticated sentiment analysis system, meticulously engineered to autonomously discern, and categorize sentiment within diverse customer review datasets using Python and Flask.

Technical Skills

- **Languages:** Python, R, C, C++, ASP.NET Core MVC, C#, JavaScript, SQL, HTML, CSS, Java, Data Structure and Algorithms, Probability and Statistics, NoSQL, Machine Learning, Image Processing Techniques, Embedded C, Linear Algebra, Big Data Analysis.
- **Tools and Technologies:** Azure, Visual Studio IDE & Code, Microsoft Cloud Azure, R-Studio, Jupyter Notebook, SQL Server, MongoDB, MATLAB, Power BI, Altair, Matplotlib, NumPy, Seaborn, Scikit-learn, Pandas, PyTorch, PowerBI, Data Visualization, Data Collection and Analysis, Data Manipulation, Streamlit, Flask, MongoDB, Machine Learning Models.
- **Certifications:** PL-900 Microsoft Certification on "Power Platform Fundamentals".

Presentations and Publications

- Paper Presentation on "**Smart Vision**" in International Conference on Science, Technology, Engineering and Management 2019 at KIT, Coimbatore.
- Published Research Paper entitled '**Wireless Body Area Network using Cryptography**' in the International Journal of Innovative Technology and Exploring Engineering (IJITEE)', ISSN: 2278-3075 (Online), Volume-9 Issue-7, May 2020, Page No. 1225-1229.
- Presented a Poster on "**Biochip Technology**" in Technisium – 2018 at Siddaganga Institute of Technology, Tumakuru.