

PRAVALLIKA S

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SUMMARY

Graduate Student in Electronics and Communication Engineering with expertise in Machine Learning. Proficient in various programming languages, including Python and Java, with a strong background in developing innovative solutions for complex technical problems. Currently pursuing a Bachelor's degree, demonstrating a commitment to continual learning and excellence in technical domains. Seeking a position in the IT industry to leverage my skills and contribute to the success of the prospective employer.

EDUCATION

Audisankara Institute of Technology

Bachelor of Technology in Electronics and Communication Engineering, CGPA: 9.32

Relevant Coursework: Python and Data Analytics, Machine Learning, Introduction to Java programming, Azure technologies

Nellore, AP

Aug 2021 – Dec 2024

Loyala Polytechnic College

Diploma in Electronics and Communication Engineering, CGPA: 9.3

Pulivendula, AP

Aug 2018 – May 2021

TECHNICAL SKILLS

Programming Languages: JAVA, Python

Database Management System: MySQL

Machine Learning tools: Jupyter Notebook and Google Colab

ACADEMIC PROJECTS

Title: Parkinson disease prediction using deep learning algorithm models on voice dataset

Location: Audisankara Institute of Technology, Nellore

Duration: Sep 2023 – May 2024

Team Size: 3

Brief Description: In this project, we applied three different machine-learning methods to the voice datasets. The most accurate predictions came from the support vector machine and XGBoost algorithms, which achieved high accuracy. Convolutional networks with a single-dimensional layer did not perform as well as the other methods and had an accuracy of 81%.

Individual Role:

- Involved in data preprocessing and data visualization.
- Implemented the Support Vector Machine Algorithm to detect Parkinson's disease.

Title: Smart Shopping Cart Using Arduino

Location: Audisankara Institute of Technology, Nellore

Duration: Jul – Sep 2022

Team Size: 3

Brief Description: Developed a smart shopping cart using Arduino and RFID to optimize supply chain management. This system aimed to eradicate long queues in shopping malls and save time for customers.

Individual Role:

- Led the project.
- Developed the Hardware components of the smart cart.

Title: Vehicle Accident Prevention and Reporting System

Location: Audisankara Institute of Technology, Nellore

Duration: Jul 2022 – Sep 2022

Team Size: 3

Brief Description: The model was aimed at preventing vehicle from getting started, if the driver had consumed alcohol or the seat belt was not worn. It detected the occurrence of an accident at any place using GPS, and reported the accident to predefined numbers, using the GSM module.

Individual Role:

- Led the project.
- Worked on alcohol detection, GPS location detection, and GSM message sending.

Title: Heart Disease Prediction Using Machine Learning

Location: Audisankara Institute of Technology, Nellore

Duration: Dec 2022 – Apr 2023

Team Size: 3

Brief Description: Created a model using machine learning techniques like KNN and Random Forest to predict heart disease based on 14 different attributes. The K-Nearest Neighbor algorithm achieved higher accuracy (91.8%) compared to Random Forest (85.25%).

Individual Role:

- Implemented the K-Nearest Neighbor Algorithm to predict heart disease.

Title: Joint Reconstruction of PET-MRI

Location: Audisankara Institute of Technology, Nellore

Duration: Dec 2022 – Apr 2023

Team Size: 3

Brief Description: In this project, two modalities like MRI and PET were combined using digital image processing and sharpening techniques to create a sharper joint image with fewer artifacts using MATLAB. The model was aimed at helping clinicians in diagnosing the patients quickly, accurately, efficiently, and effectively, while also reducing the radiation dose given to patients.

Individual Role:

- Led the project.
- Contributed towards image fusion, sharpening, and filtering.

Title: School Record Management System

Location: Audisankara Institute of Technology, Nellore

Duration: Dec 2022 – Apr 2023

Team Size: 3

Brief Description: The objective of the project was to computerize the traditional way of generating report cards and information databases in schools, using data structures and sorting techniques.

Individual Role:

- Led the project team.
- Developed the functionality required to add, edit, search, view, and delete student data from the database.

CERTIFICATIONS

- Completed Web Development Course at Internshala, covering HTML, CSS, JavaScript, and modern web frameworks.
- Attended HTML and CSS Bootcamp at Microsoft Learn Student Ambassador, developing foundational skills in web design.
- Obtained PC Hardware and Software Course Certification from CISCO, gaining knowledge of computer components and troubleshooting, including assembly, configuration, and repair.
- Participated in Human Resource Skills Workshop at TAREEQAGLOBAL SOLUTION, learning essential skills in communication, leadership, team collaboration, and conflict resolution.

CO-CURRICULAR ACTIVITIES

- Participated in a Seminar on “Community Service Project”
Engaged in a seminar that highlighted the importance of community service and social responsibility. Discussed various community service initiatives and explored ways to contribute positively to society.
- Attended a Workshop on “Employability Skills” organized by Audisankara Prowess Talk
Participated in a workshop aimed at improving employability skills. Topics included resume writing, interview preparation, professional networking, and career planning, equipping me with valuable insights for job readiness.
- Participated in a One-Week Workshop on “PCB Design”
Engaged in an intensive workshop focused on PCB (Printed Circuit Board) design. Learned about circuit design, layout, and fabrication processes. Gained practical experience in using PCB design software and creating functional electronic circuits.