Nihal Thangallapally

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EDUCATION

SR University — Warangal, India
Bachelor of Technology in Computer Science Engineering (AI&ML) — November 2021

SR Junior College — Warangal, India
Intermediate in MPC (Maths Physics, Chemistry) — June 2021

RELEVANT COURSEWORK*

C | C++ | Java | Python | Machine Learning | Artificial Intelligence | Data Modeling | Data Mining | Database Management Systems | Data Analytics | Data Structures | Relational Databases | Introduction to Deep Learning| Mobile Web Content and Development | Mobile Application Development

TECHNICAL SKILLS

Programming Languages: ***Full stack developer (HTML, CSS, NODE.JS, REACT, FLUTTER, DATABASE, JAVASCRIPT),*** Python, Java, JavaScript, C, C++, Data Structures, Kali Linux (2022.4 changelog) | **Database Management:** MySQL, SQL, Couch DB, Mongo Db, Google Fire Cloud
Machine Learning Algorithms: Decision Trees, KNN, Regression (Linear, Logistic, Multiple), Naive Bayes, Random Forest, SVM, Neural Network, NLP, K-Means| **Libraries:** NumPy, Pandas, Matplotlib, Scikit-learn, Seaborn.
Tools: Microsoft 365, Jupiter, Visual Studio, Google Collab
Certifications: Cisco Networking Academy: Ethical Hacker (Intermediate), Professional Business Analytics from University of ILLINOIS (Coursera), Fundamentals of Entrepreneurship in the Family Business (EdX)

ACADEMIC PROJECTS

Title: "Wi-fi Controlled Robot"

- **Team:** 4 members under the guidance of Ch. Rajendra Prasad, Asst. Professor, Department of electronics and communication, S R University Warangal.
- **Abstract:** The Wi-Fi-controlled robot project aims to build a mobile robot that can be controlled remotely using a smartphone application over a Wi-Fi network. The robot can move in different directions based on commands sent from the mobile application. This project involves basic robotics, electronics, and programming principles.
- **Software used:** Arduino**.**

Title: Project on "**Hospital Management System (Tools: Dev C++)**"

- **Team:** 4 members under the guidance of Sheshikala Martha, HOD, Computer Science, S R University Warangal.
- **Abstract:** The Hospital Management System is designed to handle the administrative tasks of a hospital. It keeps track of patient information, doctor information, staff details, appointments, and billing. The system is implemented in C, a powerful programming language that provides control over system resources and efficient performance.

Title: Project on "**Ads CTR Optimization Using Thomson Sampling (Tools: Google Collab)**"

- **Team:** 4 members under the guidance of Sampath, Professor, Department of Computer Science, S R Engineering College Warangal.
- **Abstract:** The goal of this project is to implement a system that optimizes the selection of ads displayed to users to maximize CTR using Thompson Sampling. This involves:
    1. Simulating an environment where multiple ads are shown to users.
    2. Implementing Thompson Sampling to dynamically select which ad to display.
    3. Comparing the performance of Thompson Sampling with other strategies like ε-greedy.

Title: Project on **"Student ID verification in Java (Tools: Visual Studio)."**

- **Team:** 4 members under the guidance of Ranjith Kumar, Professor, Department of Computer Science, S R Engineering College Warangal.

- **Abstract:** The Student ID Verification System is a Java-based application designed to authenticate student IDs. This system ensures that only valid student IDs are recognized, providing a reliable way to verify student identities. The project is implemented using Visual Studio as the Integrated Development Environment (IDE), leveraging Java for the backend logic.

Title: Project on **"Breast cancer prediction using python (Tools: Google collab)."**

- **Team:** 4 members under the guidance of Kiran Kumar, Professor, Department of Computer Science, S R Engineering College Warangal.
- **Abstract:** Breast cancer is one of the most common and potentially fatal types of cancer among women worldwide. Early and accurate diagnosis is critical for effective treatment and improved survival rates. This project focuses on developing a predictive model for breast cancer using machine learning techniques implemented in Python, leveraging the capabilities of Google Colab for collaborative and cloud-based computational resources.

VIRTUAL WORK SIMULATION

- **Expense Tracker mobile application:**

Expense tracker apps serve as digital diaries for recording all your expenditures. They offer features like categorizing expenses, setting budgets, generating reports, and sometimes even syncing with bank accounts or credit cards for automatic tracking. These apps are highly beneficial for individuals, families, freelancers, and businesses alike to keep their finances in check.

  - **Features:**
    - Income Expense Tracking
    - Budgeting
    - Transaction History
    - Financial Reports
    - Bill Remainders
    - Data security
    - User Support
    - Saving Goals

- **System Hacking in Cyber security (Tools: Kali Linux):**

System hacking is a critical component of cybersecurity, focusing on the techniques used to exploit vulnerabilities in computer systems and networks. This project aims to explore various hacking methodologies, tools, and countermeasures within a controlled environment, utilizing Kali Linux—a specialized Linux distribution designed for penetration testing and security auditing