KOMAL SINHA

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EDUCATION

Dy Patil School Of Engineering And Technology   November 2021 - June 2025
B.Tech - Computer engineering - CGPA: 8.92 (till sem-6)   *Pune, Maharashtra*

Secondary Delhi Public School   April 2019 - May 2021
AISSCE - PCM - Percentage: 78.6   *Gaya, Bihar*

EXPERIENCE

Amdocs (inunity)   Jan 2023 – Jun 2023
Innovation Project Intern(Socio-Make-A-Thon)   *Pune, Maharashtra*
- Spearheaded the development of a internal tool for tracking **temperature and humidity** in the **Onion Storage System**, enabled real-time data monitoring and editing, resulting in a **25%** reduction in onion spoilage during storage.
- Authoring multiple Arduino-based programs for team use, interfacing with the **BLYNK cloud**.Conducted data computations based on specific requirements, utilizing **DHT11 sensors** and **ESP8266** modules for data sensing.
- Tech Stacks: **C++, Figma, Arduino, BLYNK cloud**.

Chegg Inc   Sept 2022 – Feb 2023
Subject Matter Expert   *Pune, Maharashtra*
- Authored **25+ core Computer Science solutions**, spanning relational DBMS, Computer Network security, and multiple C++/Python coding.
- Solution based assistance over **100+ students** with Computer Science solutions, facilitating their understanding.
- Tech Stack: **C++, SQL, React.JS**

PROJECTS

Parkinson Disease Detection | Python, Scikit-learn, TensorFlow, Mathplotlib | Source Code   Jun 2024
- Collaboratively initiated a ML model to detect **Parkinson's disease** from patient data with a **accuracy of 0.91**.
- Enhanced diagnostic efficiency by reducing processing time by **89%** through data pre-processing and feature selection.
- Conducted comprehensive model **evaluation and validation** to ensure robustness and reliability for clinical application.

Sorting Visualizer | HTML, CSS, Javascript, Sorting Algorithms | Source Code   Dec 2023
- Developed an interactive web app to **visualize** sorting algorithm, supporting hands-on learning for **60+ students**.
- Implemented Bubble, Merge, Quick and Insertion Sort algorithms, enabling users to experiment with **4** different datasets.
- Improved user experience by adding features to **adjust visualization speed** and **dataset size**.

Library Management System| Java, Hashing, OOPs | Source Code   Jul 2023
- Designed a file-structured management system to handle library reservations, reducing manual tracking time by **40%**.
- constructed a Menu Driven Interface using Java, managing and storing **500+ reservation records** on the local disk.
- Offers a Enhanced system usability and data integrity, resulting in a **30% improvement** in overall reservation speed.

TECHNICAL SKILLS

Languages: Python, Java, C, HTML/CSS, JavaScript, SQL.
Developer Tools: VS Code, Eclipse, Anaconda, Jupyter Notebook.
Technologies/Frameworks: Git and Github, Postman, Figma, MySQL, Amazon AWS.
CS Fundamentals: DSA, Low-Level Design, Computer Networks, OOPs, Cloud Computing, OS, DBMS.

CERTIFICATIONS

Postman API Fundamentals: API testing, Scripting, REST API.
Certified Android Developer (Google): Kotlin, Firebase, Android SDK, Android Studio.
Machine Learner (Spartificial): Python, Scikit-learn, TensorFlow, Matplotlib, Jupyter Notebook.
Internet Of Things (Indeyes): Arduino, LED blinking, LcD displaying, c++.
NC-RISES (2024): Research methodology, Team collaboration, Presentation.

POSITION OF RESPONSIBILITIES

- **Coders Club wing of coding:** Organized and managed club activities, including coding workshops and event report as a **coordinator**.
- **Antarang:** Planned the Spot Photography event as a **coordinator** for the annual college fest **Antarang** and led a team of volunteers to successfully execute the event.
- **IT Colloquium Project Expo:** Lead as a designing **coordinator** of college event.