Vivek Kumar

+91 9798131474 kumar.vivek092002@gmail.com linkedin:vivekkumar github:vivek092002

Education

DY Patil School of Engineering and Technology **2021 – 2025**
B.Tech - Computer Engineering - CGPA: 8.89 *Pune, Maharashtra*

Vidya Bharati Chinmaya Vidyalaya **2018 – 2020**
AISSCE - PCM and CS - Percentage: 90.6 *Jamshedpur, Jharkhand*

Experience

All India Council for Technical Education(AICTE) **Jan 2024 – Mar 2024**
Software Developer Intern *Pune, Maharashtra*

- Constructed a banking application, implementing more than **5 core modules** for transaction processing.
- Engineered an efficient CRUD operation framework using **SQLite** to manage over **10,000** user records in real time.
- Integrated the **Razorpay** payment gateway to handle over **100+** daily secure transactions.
- Tech Stack: **Java, SQLite, XML**

Amdocs (InUnity) **Jan 2023 – Jun 2023**
Innovation Project Intern *Pune, Maharashtra*

- Spearheaded the development of an internal tool for tracking **temperature and humidity** in the **Onion Storage System**, enables real time data monitoring and editing, resulting in a **25%** reduction in onion spoilage during storage.
- Created Arduino programs with **BLYNK, DHT11, and ESP8266** for data sensing and computations.
- Tech Stack: **C++, Figma, Arduino, BLYNK Cloud**

Projects

Indoor Path | C#, ARCore, Unity | Source Code **Jul 2024**

- Developed an augmented reality **indoor navigation system** using Unity, C#, and Google ARCore SDK.
- Designed interactive **3D navigation** with real-time pathfinding across **6+** floors and smooth level transitions.
- Tested on **10+ devices**, achieving **95%** bug resolution and supporting navigation across **10,000+ sq. ft**.

Multi Threaded Webserver | Java, Thread Pool, Socket, HTTP/HTTPS | Source Code **Feb 2024**

- Coded a **multi-threaded web server** using Java, which is capable of handling **1 million** client requests.
- Implemented efficient request handling with custom sockets and a **100-thread pool** for high-concurrency performance.
- Achieved sustained performance of **1000+ HTTP requests/second** with low latency and high reliability.

Parkinson Disease Detection | Python, Scikit-learn, TensorFlow, Mathplotlib | Source Code **Oct 2023**

- Developed a machine learning model in **Python** for Parkinson's disease detection using **Scikit-learn** and **TensorFlow**.
- Applied advanced data pre-processing and feature selection to optimize performance and reduce processing time by **89%**.
- Achieved **91%** accuracy across multiple clinical datasets, improving diagnostic efficiency and model reliability.

Technical Skills

Languages: Java, Python, C/C++, HTML, CSS , JavaScript, SQL.
Libraries/Frameworks: ReactJs, SpringBoot, Kafka.
Technologies: Git and Github, Postman, Docker, REST API, MongoDB, MySQL, Firebase, AWS, Linux-Unix.
CS Fundamentals: DSA, Low-Level Design, Computer Networks, OOPs, Cloud Computing, OS, DBMS.

Achievements

- **Codechef** Starters 54: Global rank **276** out of 12000+ participants.
- **Codechef** Starters 179B: Global rank **886** out of 26000+ participants.
- **LeetCode** Weekly 437: Global rank **664** out of 30700+ participants.
- Secured **2nd rank** in Blind Coding competition with **60+** participants at Anatrang Inter-College Fest.
- Awarded as the **best Research Paper** at the 1st **National Conference RISES 2024** organized by DYPU IEEE.

Position of Responsibility

- **Antarang:** Designing Coordinator of Annual Fest of DY Patil, Pune
- **DYPU KRITI:** Researcher of the official KRITI club of DYPU.
- **IT Colloquium:** Led as designing coordinator of the event, an inter-school Project expo with **200+ footfalls**.