ANSHUL RAMDAS BALIGA

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Education

IIT Madras — Oct 2022 - Jul 2025
BSC Online Degree Program in Data Science and Programming — *Bengaluru, India*

PES University — Sep 2021 - May 2025
Bachelor of Technology in Computer Science — *Bengaluru, India*
- **MRD Scholar** - Among the top **5%** of students in the batch
- **Relevant Coursework:** - Data Structures, Machine Learnin, Cloud Computing, Operating Systems, Big Data, Applied Cryptography, Blockchain, Software Engineering, Database Management Systems

Experience

Iyengars Home Products Private Limited — Jun 2024 - Aug 2024
Software Development Intern — *Bengaluru, India*
- Contributed to the **digitization** of the entire paperwork process, reducing manual processing time by **85%**.
- Developed two mobile applications for **distributors and company administrators** using **Flutter**.
- Implemented a **MySQL** database backend, integrating it with **AWS** for secure and efficient data storage.

Toshiba Software India Private Limited (TSIP) — Jun 2023 - Aug 2023
Backend Intern in the QA and PV division — *Bengaluru, India*
- Designed an **Ideathon Registration Form Tool**, utilized by **over 2000** employees across multiple TSIP offices.
- Devised and optimized deployment of the application across **AWS** and **JumpCloud** cloud platforms, ensuring **95.9%** uptime and reducing deployment time by **30%**.
- Architected a comprehensive solution leveraging MySQL and Django, ensuring seamless data integration and management; enhanced system efficiency by **38%** and reduced data processing time by **21%**

Projects

Abnormal Distribution — Jan 2024 - Present
- Achieved a significant **90%** improvement in keyword extraction accuracy using **small language models** such as microsoft/phi-2 and zephyr-3b.
- Reduced pre-processing time by **40%** through optimized cleaning and filtering techniques.
- Successfully identified and categorized over **5000+** unique product features from customer reviews using clustering algorithms applied to keywords extracted by the models.

yaKT — Aug 2023
- Spearheaded the development of the **Raft consensus algorithm** for Kafka's metadata management.
- Achieved a **88%** improvement in performance by replacing Zookeeper.
- Orchestrated and Managed **YeKRAFT** for creating new Kafka topics, registering Kafka brokers, and retrieving metadata information for **1000+** messages per second.

PillPal — Jan 2023
- Developed a **robotic pill dispenser** designed to assist senior citizens in managing medications safely, reducing medication errors by **50%**.
- Implemented a **Facial Recognition Software** with an accuracy rate of **95%** that scans individuals' faces, and dispenses pills according to prescribed dosages stored in the system.
- Engineered the dispenser to incorporate alarms and buzzers to provide timely medication reminders.

Technical Skills

Languages: Python, C, C++, R, Java, JavaScript, SQL, NoSQL, Bash
Developer Tools: Git, Visual Studio, VS Code, Vim, Docker, Kubernetes, Jenkins
Technologies/Frameworks: MySQL, ReactJS, NodeJS, Django, Flutter, Apache Spark, Apache Kafka, PySpark, Pytorch, Hardhat, Ganache, Truffle, Huggingface, Tensorflow, Unsloth