HARSHA R PATIL

 LinkedIn | 9632572086 | harshapatil.hp01@gmail.com | GitHub
 harshapatil7.com

Skills

- Python | C | Java | MySQL | NoSQL | Express | React | MongoDB | Git | Github | Image Processing
- Cloud Computing (AWS) | Socket Programming | DaVinci Resolve 18 | Dockers | Problem Solving
- Big Data (Intermediate) | Data Analysis (Intermediate) | Generative AI (Beginner) | CI/CD | Jenkins
- Machine Learning (Intermediate) | Artificial Intelligence (Intermediate) | LLM | Stable Diffusion | Kafka

Experience

Software Testing Intern   **Alpha Tech**   *Bangalore, India*   **09/2021**
- Manual and Automation Testing

Projects

- **REMOVAL OF FOG FROM VIDEOS:** The purpose of the video defogging system is to provide clear video footage for individuals or organizations. Worked on technology like SSIM, working with color space, subsampling of frames, image enhancement. [Research Paper entitled **"Removal of Fog from videos"** with Paper ID **IST-CEE-BGLR-250324-5088** ICRMTCEE B'lore, India on 25 March, 2024]

- **IMPLEMENTING RAFT LOGIC IN GO: (Cloud Computing, Go-language)** - Designed a fault-tolerant distributed system using the Raft consensus algorithm. This involved implementing leader election and heartbeat mechanisms for node communication. The project ensured data consistency and streamlined failover processes. **Github**

- **VIDEO GAMES SALES ANALYSIS: (Data Analytics, R-language, Python)** Conducted an exploratory data analysis on video game sales data to examine the influence of genre on sales across different regions. Analyzed the impact of platform exclusivity on video game sales, identifying key trends and patterns. Delivered insights on how genre preferences and exclusivity affect sales performance in various markets. **Github**

- **YET ANOTHER MAP REDUCE: (Big Data)** Developed a distributed file system and data processing framework using MapReduce principles. This Python program efficiently processes large datasets by parallelizing tasks across a cluster and optimizing data movement. By simplifying assumptions and focusing on core functionalities, I ensured efficient scaling and problem-solving within the distributed environment. **Github**

- **IMPLEMENT NAÏVE RAG AND ADVANCED RAG TECHNIQUES : (HACKATHON - LLM , Python)** Built an NLP system using RAG models to answer questions about a dataset. This involved developing a program (utilizing ChromaDB and a vector space model) to process HTML documents and create prompts for a large language model. The project culminated in evaluating different RAG configurations for optimal performance. **Github**

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Education

B. Tech (CSE CGPA 8.2**)**	**PES University**	*Bangalore,India*	**12/2021 - 06/2024**
Diploma (CSE Percentage 80**)**	**PES Polytechnic**	*Bangalore,India*	**06/2018 - 12/2021**
SSLC (Percentage 80**)**	**Shantiniketan High School**	*Bangalore,India*	**04/2017**

Certification

- **AWS Educate Introduction to Cloud 101 -** Amazon Web Services Training and Certification **(03/2023)** BADGE
- **LFD103: A Beginner's Guide to Linux Kernel Development -** The Linux Foundation **(04/2022)** BADGE
- **Problem Solving (Basic/Intermediate) Certificate -** HackerRank **(2023)** Basic / Intermediate
- **Python (Basic) Certificate -** HackerRank **(09/2023)** BADGE
- **Programming in C -** NIIT Academy **(03/2013)**
- **Manual and Automation Testing -** Alpha Tech Academy**(09/2021)**
- **Introduction to Programming using Java -** Microsoft Technology Associate**(09/2021)**

Achievements

- **MRD SCHOLARSHIP -** Given to top 20% [PES UNIVERSITY] **(08/2022)**
- **National Cadet Corps(NCC): 'A' Certificate and Attended one State Level Camp(01/2015)**
- **Karate: District level Champion (01/2015)**

Soft Skill

- **Fast Learner**
- **Tech Enthusiast**
- **Creativity**
- **Critical Thinking**
- **Teamwork**
- **Leadership**

Languages

- **English**
- **Hindi**
- **Kannada**
- **Telugu(communicable)**