

ASHIK M P

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PROFESSIONAL EXPERIENCE

SHELL INDIA PVT LTD

Software Engineer

Bangalore, KA

Aug 2022 - Sep 2023

- I worked on process automation and application development, with a focus on reducing manual labor and improving the efficiency and productivity of the organization.
- Process Automation - Automating manual processes in Incident Management using Power Apps and Power Automate, reducing MTTR (Mean-Time-To-Respond) by 35%.
- I used Python and Visual Basic to implement a script, automating the process of backlog clearance in the Incident Management system, and cutting down the processing time by nearly 75%.

SOFTWARE AG

Machine Learning Engineering Intern

Bangalore, KA

Feb 2022 - July 2022

- Design and implement Enterprise Knowledge Graphs (EKGs) as a primary focus to efficiently address customer-related queries.
- Use Knowledge Graphs to store previously resolved queries and infer new ones. This reduces the computation overhead, compared to using a Large Language Model by 30-50%.
- Utilizing Python and spaCy to develop custom language parsers for precise Parts-Of-Speech (POS) tagging. The POS tags are then used to implement Knowledge Graph through Neo4j, ArangoDB, etc.

PANASONIC INDIA PVT LTD

Data Science Intern

Bangalore, KA

Feb 2021 - April 2021

- Leveraged AC (Air Conditioning) data stored on the cloud, to develop novel insights on AC users.
- Data preprocessing, analysis, and visualization are used to gain a deep understanding of AC cooling efficiency, reducing raw data by 45% while enhancing user information.
- Utilized data visualization techniques to communicate findings and trends related to AC performance effectively.

EDUCATION

UNIVERSITY OF CALIFORNIA, RIVERSIDE

Master's Degree, Major in Computer Science (Pursuing)

Riverside, CA

2023 - 2025

RAMAIAH INSTITUTE OF TECHNOLOGY

Bachelor of Engineering, Major in Computer Science (3.6 GPA)

Bangalore, KA

2018 - 2022

PROJECTS

- **WhisperWave** - A real-time chat application written in Golang, making extensive use of its concurrency model. The application supports private messaging between two users, group chats, and real-time push notifications using secure web-socket communication. It uses technologies like AWS DynamoDB, and RabbitMQ for storing, queueing, and enabling communication between users and also between user and chat servers effectively.
- **Neural Network Implementation from Scratch** - Designed and Implemented Neural Networks from scratch by using Python and NumPy, hence bypassing the use of pre-built machine learning or deep learning libraries.
- **Anime Search Index** - I constructed a well-organized and searchable database of anime and manga titles, empowering users to explore and discover content seamlessly. This involved efficiently scraping over 100,000 entries from two public APIs while adhering to API usage guidelines through a custom request back-off policy and subsequently building a robust search index using MongoDB.

ADDITIONAL INFORMATION

- **Technical Skills:**
 - **Languages** - C, C++, Java, Python, Golang, JavaScript, SQL, HTML, CSS.
 - **Tools, Framework, and Libraries** - ReactJs, NodeJs, MongoDB, Docker, Kubernetes, Amazon Web Services, Google Cloud Platform, Hadoop, Scikit-Learn, Pandas, Matplotlib, TensorFlow, GitHub.
- **Certifications:** Coursera - Neural Networks and DeepLearning, Sequence Models, NVIDIA - Getting Started with Deep Learning, LinkedIn - Learning Go.