

# ASHIK M P

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## PROFESSIONAL EXPERIENCE

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### 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%.
- Using Python and Visual Basic to implement a script, automating the process of backlog clearance in the Incident Management system, 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.
- Usage of Knowledge Graphs to store previously resolved queries and to infer new queries. This reduces the computation overhead, compared to the usage of 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

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### 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

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- **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.
- **Animetracker API Development** - Designed and developed a robust AnimeTracker API using Golang in conjunction with MongoDB to create, manage, and serve an extensive anime database.

## ADDITIONAL INFORMATION

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- **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.