

ASHIK M P

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PROFESSIONAL EXPERIENCE

SHELL INDIA PVT LTD

Software Engineer

Bangalore, IN

Aug 2022 - Sep 2023

- Automated processes and developed applications, focusing on reducing manual labor and enhancing organizational efficiency and productivity.
- Implemented process automation in Incident Management using Python, Power Apps, and Power Automate, reducing Mean-Time-To-Respond (MTTR) by 35%.
- Developed a Python and Visual Basic script to automate backlog clearance in the Incident Management system, reducing processing time by 75%.

SOFTWARE AG

Machine Learning Engineering Intern

Bangalore, IN

Feb 2022 - July 2022

- Designed and implemented Enterprise Knowledge Graphs (EKGs) to address customer-related queries efficiently.
- Used Knowledge Graphs to store previously resolved queries and infer new ones, reducing computation overhead by 30-50%.
- Developed custom language parsers using Python and spaCy for precise Parts-Of-Speech (POS) tagging and implemented Knowledge Graphs through Neo4j and ArangoDB.

PANASONIC INDIA PVT LTD

Data Science Intern

Bangalore, IN

Feb 2021 - April 2021

- Leveraged AC (Air Conditioning) data stored on the cloud to develop novel insights on AC users.
- Performed data preprocessing, analysis, and visualization to understand AC cooling efficiency, reducing raw data by 45%.
- Utilized data visualization techniques to communicate findings and trends related to AC performance.

EDUCATION

UNIVERSITY OF CALIFORNIA, RIVERSIDE

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

Riverside, CA, USA

2023 - 2025

RAMAIAH INSTITUTE OF TECHNOLOGY

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

Bangalore, IN

2018 - 2022

PROJECTS

WhisperWave - A real-time chat application written in Golang, extensively using 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 using Python and NumPy, bypassing 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 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, Scikit-Learn, Pandas, Matplotlib, GitHub.

Certifications:

- [Docker Foundations Professional Certificate](#) (LinkedIn and Docker)
- [Sequence Models](#) (Coursera)
- [Neural Networks and Deep Learning](#) (Coursera)
- [NDG Linux Essentials](#) (Cisco)