

ASHIK M P

Full Stack Developer

Riverside, CA • +1 951-548-9431 • mpashik2001@gmail.com • [Portfolio](#) • [GitHub](#) • [LinkedIn](#) • [IEEE](#)

PROFESSIONAL EXPERIENCE

SHELL INDIA PVT LTD

Software Engineer

Bangalore, IN

Aug 2022 - Sep 2023

- Designed and developed web applications to automate incident management processes, significantly improving incident handling and reducing manual intervention.
- Developed Python-based automation scripts integrated with enterprise tools like Power Apps and Power Automate, resulting in a 35% reduction in Mean-Time-To-Respond (MTTR) for critical incidents.
- Built and deployed scalable Python and Visual Basic scripts to automate backlog clearance in the Incident Management System, decreasing processing time by 75% and enhancing system reliability.
- Designed the database schema to manage internal teams and users, integrating multiple data sources to execute SQL queries, and displaying relevant data for improved operational insights.
- Created and maintained frontend web pages using Vanilla JavaScript, HTML, CSS, and Power Apps to design user-friendly interfaces aligning with operational requirements, enhancing the accessibility and usability of internal tools.

SOFTWARE AG

Machine Learning Engineer

Bangalore, IN

Feb 2022 - July 2022

- Designed and implemented Enterprise Knowledge Graphs to efficiently handle customer queries, reducing computation overhead by 30-50% and improving response times.
- Developed custom language parsers using Python and spaCy for accurate parts-of-speech tagging, enhancing NLP processing accuracy for customer queries.
- Implemented and optimized Knowledge Graphs using Neo4j and ArangoDB to store and infer new queries, supporting a scalable query architecture.
- Collaborated with the testing team to develop and run CI/CD test suites for functionality and performance testing, utilizing JMeter, GitHub Actions, and other test tools to ensure robust model deployment and system reliability.

PANASONIC INDIA PVT LTD

Data Scientist

Bangalore, IN

Feb 2021 - April 2021

- Leveraged cloud-stored air conditioning (AC) data to generate novel insights into user behavior and AC usage patterns, optimizing data analysis for actionable outcomes.
- Performed comprehensive data preprocessing, statistical analysis, and visualization to assess cooling efficiency, reducing data volume by 45% while retaining critical information.
- Utilized advanced data visualization techniques to effectively communicate findings, revealing trends in AC performance and efficiency that informed data-driven improvements in product design and user engagement strategies.

EDUCATION

UNIVERSITY OF CALIFORNIA, RIVERSIDE

Master's Degree, Major in Computer Science (3.8 GPA)

Riverside, CA, USA

2023 - 2025

RAMAIAH INSTITUTE OF TECHNOLOGY

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

Bangalore, IN

2018 - 2022

PROJECTS

YASMP - Yet Another Social Media App is a full-stack web application built with Next.js and Firebase (Firestore, Storage, Auth). I developed backend REST APIs using Golang, deployed on Google App Engine. The app features user authentication, real-time notifications, and search functionality for connecting with other users, enhancing the social experience by allowing users to engage seamlessly. [Click here](#)

WhisperWave - A real-time chat application written in Golang, making 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 to store, queue, and enable user-user and user-server communication. [Click here](#)

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. [Click here](#)

Anime Search Index - Built a searchable anime and manga database by scraping over 100K entries from public APIs and developing a fuzzy search index with MongoDB Atlas for efficient querying. Additionally, I implemented GitHub Workflows to automatically fetch and update new anime entries in the database. [Click here](#)

ADDITIONAL INFORMATION

Technical Skills:

- Languages** - C, C++, Java, Python, Golang, JavaScript, TypeScript, SQL, HTML, CSS.
- Tools, Frameworks, and Libraries** - ReactJs, NextJs, NodeJs, Spring Boot, Django, Bootstrap, TailwindCSS, MongoDB, Docker, Kubernetes, Amazon Web Services, Google Cloud Platform, Firebase, Scikit-Learn, Pandas, Matplotlib, Git & GitHub, Co-pilot, OpenAI API suite.