Aishwary Pratap Singh

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Education

PSIT, Kanpur, B.Tech in Computer Science & Engineering   Aug 2018 – Jul 2022
- GPA: 8.4

Experience

Software Engineer, Hashedin by Deloitte – Gurugram   March 2022 - Present
- Optimized application performance by reducing API callback times by up to **40%** through the implementation of **caching mechanisms**, improving **response times** and overall user experience.
- Integrated **Generative AI models** into Django-based applications to enhance intelligent functionalities.
- Leveraged Generative AI to auto-generate navigation steps for automation workflows, **reducing manual effort by ~40%**.
- Implemented vector-based semantic search to identify the most relevant test cases, **improving search efficiency by 60%**.
- Implemented **threading strategies** that enhanced application **scalability**, increasing **throughput by 30%** and supporting **concurrent processing** for improved performance under high load conditions.
- Implemented a **queue system using Redis** for efficient **task management** and processing.
- Leveraged **Celery** to schedule and execute tasks **asynchronously**, enabling **scalability** and improved system performance.
- Designed a **Selenium Orchestration Service** to execute jobs across multiple machines, track their progress, and generate detailed **reports** and **execution videos**.
- Implemented **analytical methods** to measure and improve **employee engagement** levels.
- Maintained a **microservice architecture** using **Spring Boot** and **Flask**.
- Implemented **topic identification algorithms** for streamlined task management.
- Regularly involved in **client discussions** to understand and implement new features.
- Efficiently handled **client requests** and provided **technical solutions**.

Projects

Stock Broker App   postman.com/document
- Developed a simulation of an order matching engine for a stock exchange using a limit order book data structure.
- Tools Used: Python, Django, Azure Cosmos DB.

Phone Number Lookup and Span Detection API   github.com/psd/repo
- Developed a REST API to support a mobile app enabling users to identify spam callers and search for individuals by phone number or name. The backend manages user registration, contact management, spam reporting, and search functionalities, with data stored in a relational database via an ORM.
- Tools Used: Django, SQLite.

Technologies

Languages: Python, Java.
Working Experience In: Django REST API(Backend), Flask, Spring Boot, Langchain, GenAI, Docker, Azure CI/CD, Mongo db, Cosmos db, Postgres db.
IT Constructs: Data Structures, Algorithms, OOPS, DBMS, Software Engineering, Networking OS, HTML, CSS.
Technologies/Frameworks Django RestAPI, Flask, Spring Boot, Langchain.