APURV MISHRA

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EXPERIENCE

Software Development Engineer   *July 2022 – Present*
BNY   *Pune, India*

- Developed back-end applications APIs using Java SpringBoot
- Developed report-bot application using python to generate reports from database (for details refer projects section)
- Designed and implemented data models for AI/ML use cases, ensuring data integrity and optimal performance.
- Worked with Large Language Models (LLMs) such as mistral.
- Collaborated with clients to gather requirements and effectively communicated technical information.
- Implemented and configured CI/CD pipelines for MLOps, ensuring efficient and automated deployment processes.

Associate Software Engineer   *Dec 2021 – Jun 2022*
ThoughtPearls Infotech   *Jaipur, India*

- Developed employee data management system with access controls for employees and admins to efficiently store, edit and retrieve employee data

EDUCATION

Rajiv Gandhi Proudyogiki Vishwavidyalaya(R.G.P.V) University, Bhopal   *Aug 2020 – May 2022*
Masters of Computer Application, GPA: 9.2/10

TECHNICAL SKILLS

Languages: C/C++, Java, Python, JavaScript
Frameworks: FastAPI, Spring boot, REST- Microservices, Angular.
ML/AI: LLMs, GenAI, MLOPS, Pandas, NumPy, scikit-learn, TensorFlow.
Others: Git, SQL No SQL, Jenkins, Kubernetes, Docker

PROJECTS

➢ **Report Bot Application**
  BNY

- **Project Overview**: Developed an AI-powered chatbot for generating reports on-demand for clients, significantly reducing the time taken from 3-4 days to instant delivery.
- **Use Case**: Clients previously had to submit requests and wait for manual processing of reports. The bot automates this, allowing clients to get real-time reports by providing account numbers and other parameters through chat.
- **Technologies Used**:
    - **Programming Language**: Python
    - **NLP and AI**: Leveraged Large Language Models (LLMs) for natural language processing and machine learning algorithms to enhance system intelligence.
    - **Data Processing**: Utilized Pandas and NumPy for data manipulation and processing.
    - **Database**: Designed SQL queries dynamically based on user inputs to fetch data from databases.
- **Features**:
    - **Real-Time Reporting**: Generates and displays the requested report in the chat with a preview of 20 rows and columns.
    - **Downloadable Reports**: Provides an option to download the full report in Excel format.
    - **Feedback Mechanism**: Integrated feedback functionality to continuously improve the bot's performance and accuracy.
- **Impact**: Improved efficiency by automating the report generation process, reducing the workload on manual processing teams, and providing clients with instant access to necessary data.

➢ **App Usage API - Application Usage Tracking** / SpringBoot, MongoDB, Tableau

- Developed APIs to capture and store application usage statistics, including user interactions and time spent, leveraging MongoDB for data storage.

- **Analytics Integration:** Integrated with Tableau to generate insights from collected data, aiding in decision-making and user behavior analysis.