RAJ KUMAR

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Career Objective:

Aspiring Python Developer with expertise in building scalable, data- and AI-driven solutions and web applications. Passionate about solving complex problems, optimizing backend systems, and contributing to innovative projects. Seeking a dynamic role to apply my skills and grow professionally.

Professional Summary:

- Around **1+ years** of experience in software development using **Python**.

- Proficient in building **RESTful APIs** using **Django, DRF,** and **FastAPI**.

- Experienced in **web scraping** with **Scrapy** and **BeautifulSoup** for **data extraction**.

- Hands-on experience with **LLM fine-tuning** and integration for **AI-driven applications**.

- Skilled in **MySQL and Django ORM** for **efficient database management and queries**.

- Expertise in **Celery and Redis** for task queue management and background processing.

- Familiar with **version control tools** like **Git and GitHub** for collaborative development.

- Experience in project management and bug tracking using **JIRA**.

- Well-versed in **Agile Scrum Methodology**, contributing to sprint planning and execution.

- Good communication skills, collaborative with teams, and adaptable to new technologies and environments.

- Flexible and quick learner, capable of adapting to new tools and frameworks effectively.

Academic Details:

- **MCA** from LNMI (AK University), Patna

Professional Experience:

- Working as Python Developer at **Verve Digital Technologies Pvt Ltd,** from Jan'2024 to till date.

Technical Skills:

- Frontend   : HTML, CSS, JavaScript, jQuery, Ajax
- Backend   : Python, Django, DRF, FastApi
- AI & Data Science   : LLMs, Web scraping, Numpy, Pandas
- Database   : MySQL, Django ORM
- Operating System   : Windows, Linux
- Tools   : Postman, Git, GitHub, JIRA

Project 1

Project Title   : **AI-Powered Interview Assistant**

Client   : **Quark.ai**

Position   : **Python Developer**

Tech stacks   : Django REST Framework, Django ORM, Hugging Face models (LLMs), Pandas,

                     Celery, Redis, Simple JWT, Postman, JIRA

Project Description:

At Verve Digital, I was part of the core development team responsible for building an **AI-powered interview assistant** aimed at automating and streamlining the candidate screening process. The project involved developing a system that could **analyze resumes, assign scores**, and automatically schedule interviews. During the interview, the AI assistant conducted **live, oral interviews** using both text and voice-based interactions, requiring access to the candidate's **microphone and camera**.
The assistant leveraged **fine-tuned LLMs** to ask dynamic and context-aware questions based on the candidate's resume. It also featured **vulnerability detection**, identifying suspicious activities such as looking away, whispering, or multiple voices in the background. If any vulnerabilities were detected, the assistant issued real-time warnings.
The system was designed to **handle asynchronous operations** using Celery and Redis, ensuring smooth execution of background tasks such as resume parsing, LLM interaction, and scheduling. The project also involved **integration with third-party APIs** for email notifications and scheduling tools, enhancing the overall efficiency and automation of the interview process.

Role & Responsibilities:

- **Analyzed business requirements** documents to get a better understanding of the system from both technical and business perspectives.

- **DRF API Development:** Built and optimized RESTful APIs using Django REST Framework to handle **resume analysis, scoring, and interview scheduling**. Involved in development and Optimization of Automation reusable functions and scripts.

- **Dynamic, Structured Programming & Robust Logging:** Wrote **clean, modular, and reusable code** using both **class-based and function-based views**, ensuring scalability and maintainability. Implemented **robust exception handling** and integrated **structured logging** to effectively monitor, troubleshoot, and enhance application reliability.

- **LLM Selection & Fine-Tuning:** Identified suitable **Hugging Face LLMs**, performed fine-tuning, and integrated them for text and voice-based interview interactions.

- **Asynchronous Operations:** Used Celery with Redis to handle **background processing** for smooth and efficient execution of scheduling, scoring, and LLM responses.

- **Database Management:** Worked with **Django ORM** to efficiently store and manage candidate data, resumes, and interview logs.

- **Optimization & Debugging:** Optimized API response times and debugged performance issues to enhance system efficiency.

- **Collaboration & Communication:** Attended **daily status calls** with the **onshore team,** providing updates on project progress, discussing challenges, and aligning on priorities for seamless collaboration.