**Week 3: Backend Development & Database Integration**

**Objectives:**

* Develop the backend logic for expert-candidate matching.
* Implement database schema and establish API endpoints.
* Integrate authentication and role-based access control.

**Tasks Completed:**

* Set up Flask backend and connected it with MongoDB.
* Created API endpoints for user authentication (JWT-based).
* Designed and implemented database schema for storing experts, candidates, and matching data.
* Developed logic for resume parsing and extracting key candidate skills.
* Implemented basic expert recommendation system based on domain and experience.

**Challenges Faced:**

* Handling and processing different resume formats efficiently.
* Optimizing database queries for fast expert matching.
* Managing role-based authentication for admin, experts, and candidates.

**Next Steps:**

* Develop an improved ML-based expert matching algorithm.
* Work on frontend integration with backend APIs.
* Start testing API functionalities using Postman.