

**EMSE 6586**  
**Final Project 1: Deliverable – 1**

**Team Member:**

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**Project:**

For this **individual project**, the objective is to convert the **Nobel Prize dataset**, initially in JSON format, into a structured **SQL database** using **Python** scripts. Leveraging Python's libraries such as **Pandas** for data manipulation, I will transform the **JSON data into a relational database schema**. This process involves parsing the JSON file, extracting relevant fields, and organizing them into tables within the SQL database. The workflow encompasses data retrieval, data cleaning and preprocessing, transformation, and database design, all managed independently. Once the SQL database is set up, I will **conduct various analyses to uncover insights from the Nobel Prize data**. This may include querying the database to identify trends in laureate information based on prize categories and time periods. Additionally, **statistical analysis and visualization techniques** will be employed to visualize patterns and correlations within the dataset, ultimately providing a deeper understanding of the prestigious Nobel Prize awards.