**Resume Screening Application**

**Machine Learning Project**

**Subject Code: SE-204**

**BATCH: A2**

**Name of Students:**

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**&**

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**Project Proposal**

1. **Topic**: Resume Screening Application
2. **Problem Statement**: To develop a machine learning application that can automate the process of screening resumes, thereby reducing the manual effort and increasing the efficiency of the recruitment process.
3. **Subtopics**:
   1. Data Collection
   2. Data Preprocessing
   3. Feature Extraction
   4. Model Training
   5. Model Evaluation
4. **Problem Statement Description**:
   1. **Data Collection**: Gather a dataset of resumes with their corresponding labels (selected or not selected).
   2. **Data Preprocessing**: Clean the data and convert the text in the resumes into a format that can be fed into a machine learning model.
   3. **Feature Extraction**: Extract relevant features from the resumes that can be used to predict whether a candidate should be selected or not.
   4. **Model Training**: Train a machine learning model on the pre-processed data.
   5. **Model Evaluation**: Evaluate the performance of the model using appropriate metrics.
5. **Software Tools Used**: Python, Jupyter Notebook, Pandas, Numpy, Scikit-learn, Natural Language Toolkit (NLTK).
6. **Hardware Specifications**: A standard laptop or desktop with at least 8GB RAM and a quad-core processor.
7. **Programming Language Used**: Python