PS-II - ONE PAGE SUMMARY

PS-II (Internship or Thesis) : Thesis

Name of PS-II Station : Bml Munjal University

Details of PS-II Faculty Mentor : Dr. Shilpa Mahajan

Details of PS-II Industry Mentor : N/A

Name of the Student : Yash Agrawal

Student Enrolment No. :230745

Student University Email ID :yash.agrawal.23cse@bmu.edu.in

Time span of PS-II Project in weeks : 8 weeks

Title of the PS-II Project : Finding Best Machine And Deep Learning Models in Medical Field

Objective(s) of the project : Finding out which machine and deep model is best in medical field

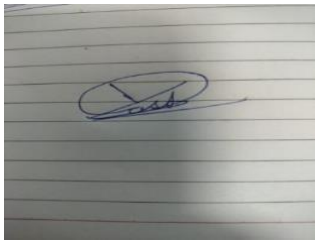
Tool used (H/w, S/w) : Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, TensorFlow/Keras

Short Summary of work done during PS-II: Conducted end-to-end processing of two medical datasets consisting of performing data acquisition, preprocessing, and exploratory data analysis (EDA), followed by using machine learning models for establishment of baselines. More fine-tuned and created deep learning models using TensorFlow/Keras with optimized classification performance and healthcare application inferences

Major Learning Outcomes from PS-II: Gained extensive practical knowledge in end-to-end machine and deep learning pipelines involving data preprocessing, EDA, feature engineering, and model development. Had first-hand experience with ML algorithms and deep learning architectures in Python utilizing Scikit-learn and TensorFlow/Keras. Enhanced understanding of hyperparameter tuning, metrics of performance, and real-world nuances in healthcare data analysis.

Name of the Academic Courses Relevant to the PS-II Project: Machine Learning

Details of Publications/patents (if any):N/A



Student Signature **Faculty Mentor Signature**