TABLE OF CONTENTS

- EXPERIMENT 1: Introduction to Google Colab, Jupyter, Python, Matplotlib & Seaborn
- 2. EXPERIMENT 2: Basics of LaTeX, Anaconda, NumPy and Pandas
- 3. **EXPERIMENT 3:** Perceptron and Implementation of Artificial Intelligence using Tensorflow and Keras
- **4. EXPERIMENT 4:** Experimental design for pollutants removal in wastewaters with the aid of artificial intelligence
- **5. EXPERIMENT 5:** Applications of artificial intelligence and machine learning in monitoring air pollution
- **6. EXPERIMENT 6:** Exploring Human Toxicity Data using NumPy, Pandas, Matplotlib and Seaborn
- 7. **EXPERIMENT 7:** Wastewater characterization using neural networks and deep learning
- **8. EXPERIMENT 8:** Structural and Environmental Health Monitoring using Machine Learning and Artificial Intelligence.
- **9. EXPERIMENT 9:** Environmental impact prediction using Life Cycle Assessment and Al application.
- **10. EXPERIMENT 10:** Solid waste management and artificial intelligence.
- 11. Manuscript Case Study 1
- 12. Manuscript Case Study 2
- 13. Manuscript Case Study 3
- 14. Manuscript Case Study 4