



## EDUCATION AND SCHOLASTIC ACHIEVEMENTS

| PROGRAM   | INSTITUTION                                       | % / CGPA | YEAR  |
|---|---|----------|-------|
| M Tech in <b>Data Science</b>   | Indian Institute of Technology Madras, India      | 7.43     | 2024* |
| B Tech (Honours) in <b>Electronics and Computer Science Engineering</b> | Kalinga Institute of Industrial Technology, India | 9.22     | 2022  |
| XII (EUEE)  | Kurfa Chele Preparatory School, Ethiopia          | 82.6%    | 2016  |
| X (EGSECE)  | Kurfa Chele Secondary School, Ethiopia            | 77.9%    | 2014  |

- Completed **Honours degree** in Electronics and Computer Science Engineering from KIIT University in India
- Achieved a **full scholarship of 10K USD per year** based on CGPA, granted by the Ethiopian government
- Awarded full scholarship by IIT Madras for the **International Interdisciplinary Master Program (I2MP) in Data Science**

## COURSEWORK

|   |                                  |                                       |
|---|----------------------------------|---------------------------------------|
| <b>Machine Learning</b>                         | <b>Deep Learning*</b>            | <b>Introduction to Data Analytics</b> |
| <b>Mathematical Foundations of Data Science</b> | <b>Big Data</b>                  | <b>Process Optimization</b>           |
| Data Analytics Laboratory                       | Data Structures & Algorithms     | Big Data Laboratory                   |
| Inferential Statistics                          | Design and Analysis of Algorithm | Object Oriented Programming           |

## SKILLS

|  |   |                                      |
|--|---|--------------------------------------|
| <b>Languages and tools</b>   | <b>Libraries and Framework</b>  | <b>Software</b>                      |
| Python, Java, R, C, C++,<br>SPSS, Power BI, MS Excel,<br>Google Cloud Platform | NumPy, Pandas, Matplotlib, Scikit-learn,<br>TensorFlow, Keras, Seaborn, OpenCV, Scipy,<br>Pytorch | Android Studio, Google Colab, GitHub |

## CERTIFICATIONS

|  |                           |                              |
|--|---------------------------|------------------------------|
| Google Data Analytics Professional Certificate | AI For Everyone           | Machine Learning Foundations |
| Web development                                | Entrepreneurship I and II | Core Java                    |

## PROFESSIONAL EXPERIENCE

|  |  |
|--|--|
| <b>Business Analyst</b><br><b>Finlatics Internship</b><br>(Jun 2023 - July 2023) | <b>Employed Microsoft Excel and Power BI to Foster Data-Driven Decision-Making</b> <ul style="list-style-type: none"> <li>Conducted <b>case studies</b> for industry leaders such as Airbnb, Procter &amp; Gamble, Clearfit and Yes Bank</li> <li>Leveraged expertise in <b>data visualization</b> using <b>Power BI</b> to extract valuable insights from complex datasets</li> <li>Contributed to <b>informed decision-making and business growth</b> by enhancing business strategies</li> </ul>  |
| <b>Energy Mentor</b><br><b>IIT Ropar Internship</b><br>(May 2023 - July 2023)    | <b>Collaborated with a 5-member team to develop a digital twin for a hybrid energy system</b> <ul style="list-style-type: none"> <li>Engineered a <b>hybrid model</b> that integrated Solar PV, Wind turbine, Fuel cell and Propane as energy sources</li> <li>Conducted processing of <b>Energy Demand data</b> and applied <b>PCA</b> to achieve dimension reduction on the dataset</li> <li>Implemented <b>Particle Swarm Optimization</b> as the optimization algorithm to determine the optimal energy production from a diverse range of sources, resulting in a significant <b>33% reduction in energy waste</b></li> </ul> |

## PROJECT EXPERIENCE

|   |   |
|---|---|
| <b>B. Tech. Project</b><br>Guide: Dr. T. Kar                | <b>Detection of COVID-19 based on Radiological Images.</b> <ul style="list-style-type: none"> <li>Developed a COVID-19 detection project using advanced <b>deep learning models</b> such as <b>VGG19</b> and <b>ResNet50</b></li> <li><b>Analyzed radiological images</b> to accurately detect COVID-19 using the developed deep learning models</li> <li>Achieved <b>98% accuracy</b> in COVID-19 detection through the implementation of 5 distinct Deep Learning models</li> </ul> |
| <b>Health Insurance Sales</b><br>(Course project)           | <ul style="list-style-type: none"> <li>Developed and implemented a predictive analytics model for <b>health insurance sales</b></li> <li>Utilized various machine learning algorithms like <b>Logistic Regression, Random Forest, SVM, XGBoost</b></li> <li>Conducted extensive experimentation and analysis to identify Logistic Regression as the most effective algorithm</li> </ul>   |
| <b>Stock Market Analysis</b><br>(Course project)            | <ul style="list-style-type: none"> <li>Analyzed and trained the <b>stock market dataset</b> using machine learning algorithms for decision-making</li> <li>Utilized various ML algorithms including <b>Random Forest and SVM</b>, to generate predictive insights</li> <li>Demonstrated proficiency in <b>data manipulation, feature engineering, EDA and model evaluation</b></li> </ul>   |
| <b>Clustering for Better Breakfasts</b><br>(Course project) | <ul style="list-style-type: none"> <li>Conducted an evaluation of <b>hierarchical algorithms</b> using <b>multiple distance matrices</b></li> <li>Utilized <b>Silhouette Score</b> and <b>Elbow Method</b> to identify the optimal number of clusters in <b>k-means algorithm</b></li> <li>Analyzed cluster similarity using <b>Jaccard index</b> and <b>Euclidean distance metrics</b></li> </ul>  |
| <b>House price Prediction</b><br>(Kaggle Contest)           | <ul style="list-style-type: none"> <li>Participated in predicting house prices using <b>Linear Regression</b>, analyzing different features</li> <li>Conducted <b>data preprocessing, EDA, model selection, hyper parameter tuning and cross-validation</b></li> </ul>  |
| <b>Credit Card Fraud Detection</b>                          | <ul style="list-style-type: none"> <li>Utilized <b>logistic regression</b> with <b>SMOTE over-sampling</b> for credit card fraud detection</li> <li>Demonstrated effectiveness in accurately identifying positive cases and <b>minimizing the risk</b> of overlooking</li> <li>Emphasized the importance of careful data preprocessing and algorithm selection for achieving balanced and accurate predictions</li> </ul>   |

## EXTRA CURRICULAR ACTIVITIES

- Volunteering:** Actively contribute to philanthropy as a member of Art of Giving since March 2023
- Interests:** Enjoy reading a wide array of books, from fiction to non-fiction
- Sports:** Participated in the Ethiopian football tournament at KIIT University
- Skills:** Skilled in mobile repair and troubleshooting training at Central Tool Room and Training Center, Bhubaneswar, Odisha