



EDUCATION AND SCHOLASTIC ACHIEVEMENTS

PROGRAM	INSTITUTION	% / CGPA	YEAR
M Tech in Data Science	Indian Institute of Technology Madras, India	7.43	2024*
B Tech (Honours) in Electronics and Computer Science Engineering	Kalinga Institute of Industrial Technology, India	9.22	2022
XII (EUEE)	Kurfa Chele Preparatory School, Ethiopia	60.85%	2016
X (EGSECE)	Kurfa Chele Secondary School, Ethiopia	87.5%	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

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

SKILLS

Languages and tools	Libraries and Framework	Software
Python, Java, R, C, C++, SPSS, Power BI, MS Excel, Google Cloud Platform	NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow, Keras, Seaborn, OpenCV, Scipy, 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

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

PROJECT EXPERIENCE

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

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