



EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2025	M.TECH	IIT Kharagpur	8.35 / 10
2022	B.TECH in Civil Engineering	JNTUH College of Engineering Manthani	6.44 / 10
2018	TSBIE	Sri Chaitanya junior Kalasala, Hyderabad	97.4%
2016	TSBSE	Good Shepherd School, Papaiahpet	9.7 / 10

INTERNSHIPS

Digital Summarizer | Abstract text summarization, [31 Dec 2023- Ongoing]

- Machine Learning Intern with SUVIDHA FOUNDATION, contributing to the organization's mission by spearheading comprehensive data collection initiatives. Adept at aggregating diverse datasets sourced from prominent English newspapers, specializing in processing and analyzing newspaper data spanning the years 2010-2015.
- Developed Robust Text Summarization Model: Applied advanced techniques in Deep Learning, Natural Language Processing (NLP), and Machine Learning to create a highly effective text summarization model. Achieved notable success in distilling large volumes of information into concise and coherent summaries.

Data Science Intern With CODSOFT, [10 Jan 2024-Ongoing]

- Spearheaded impactful contributions as a Data Science Intern at Codsfoot, actively engaging in real-time projects, proficiency in Python to develop predictive models for diverse applications, showcasing a keen understanding of statistical analysis and machine learning techniques. Collaborated seamlessly with cross-functional teamwork skills.
- Notable projects include: Titanic Survival Prediction | Movie Rating Prediction with Python | IRIS Flower Classification | CREDIT Card Fraud Detection
- Engaged in rigorous data cleaning, preprocessing, and feature engineering to ensure the reliability and accuracy of models. contributing innovative ideas and solutions

PROJECTS

Covid-19 Detection using Chest X-Ray

[Sep 2023]

- Conducted a comprehensive Exploratory Data Analysis (EDA) on a meticulously curated and well-annotated dataset comprising chest X-ray images. The primary focus of the analysis was on cases diagnosed as positive for COVID-19. The dataset used in this study consists of chest X-ray images, each meticulously annotated for accurate result
- The EDA revealed valuable insights into the distribution, Developed a Convolution Neural Network (CNN) model from scratch for detecting Covid-19 using chest X-Ray images. Achieved highest accuracy of 91.14% and 98.66% on training and testing set post increased the model generalization using data augmentation techniques.

Spam Classification

[July 2023]

- Worked on SMS Spam Collection dataset which consists of 5574 messages to build a prediction model that will accurately classify which texts are spam or harm. Applied Natural Language Processing (NLP)-based techniques for cleaning and refining textual data, ensuring the model's effectiveness in real-world contexts
- Executed a comprehensive approach to text data preprocessing and analysis, with a specific focus on Natural Language Processing (NLP). Achieved exceptional accuracy through the application of advanced methodologies, culminating in a Naive Bayes model with an impressive 98% accuracy rate outcome.

Heart disease prediction

[Aug 2023]

- Led the development of a predictive model for early diagnosis of heart disease, employing the Decision Tree algorithm. Conducted a thorough Exploratory Data Analysis (EDA) to identify key symptoms influencing heart disease, utilized numpy for analysis and Matplotlib Seaborn libraries to create insightful visualizations.
- Implemented advanced hyperparameter tuning techniques, including GridSearchCV and RandomSearchCV, to optimize model parameters and enhance predictive accuracy. Successfully fine-tuned model parameters to achieve a commendable accuracy rate of 84.6% by tuning key parameters, extending depth to 15 levels.

Census Income

[Oct 2023]

- Led the execution of Exploratory Data Analysis (EDA) on the Census Income dataset, leveraging advanced data visualization techniques with Matplotlib, Pandas, and Seaborn. Spearheaded the execution of Exploratory Data Analysis on the Census Income dataset, ensuring a thorough understanding of data characteristics.
- Subsequently, undertook the development of predictive models using Logistic Regression, Decision Tree, and Random Forest algorithms to discern patterns and predict income levels. Demonstrated versatility in algorithm selection and optimization, with the Random Forest classifier yielding the highest accuracy, achieving 81.39%.

SKILLS AND EXPERTISE

Programming Languages : Python, R, C, MATLAB, SQL | Frameworks and Libraries: OOps, Pandas, Numpy, Scikit-learn, NLTK, Tensorflows | Data Visualization Techniques: Matplotlib, Seaborn, EXCEL | Cloud platforms: MS Azure | Other known software: QGIS, Google earth engine, CAD | Tools: Jupyter notebook, Google colab

CERTIFICATIONS

CERTIFIED COURSES

Advanced Certification in Data Science and Artificial Intelligence [CODE IIT MADRAS, Mar 2023-Ongoing]

- Course Domain: Data Science, Machine Learning, Artificial intelligence, Power BI, GIT
- The Complete Data Structures and Algorithms in Python | Data Structures and algorithms | Python | Udemy- [Nov 2023]
- Python Programming Masterclass | Python | Udemy- [June 2023]
- Introduction to Natural language Processing | Great Learning- [Oct 2023]
- Introduction to R | Basic of R language | Great Learning- [Mar 2023]
- Data Analysis with R programming | Data Analysis and visualization with R language | Coursera- [Dec 2023]

COURSEWORK INFORMATION

Data Analytics in Earth System Science | Statistical and Machine Learning Methods in Water Resources Engineering | Computational Methods | Design Lab Atmospheric Dynamics | Carbon Cycle and Global Climate Change | Satellite Remote Sensing | Global Climate System and Cloud Precipitation Processes | Physical Oceanography

POSITIONS OF RESPONSIBILITY

Secretary Sports | MMM Hall Council, IIT Kharagpur [25 Sep 2023-Ongoing]

- Selected in team of 10 members to organise games, events for Pt. Madan Malaviya Hall of Residence is the Highest Boarders capacity hall with 2100+ students of IIT Kharagpur Guiding the students to participate in Institute level and national level events This role involved mentoring and facilitating students in leveraging opportunities beyond the campus This experience underscores leadership, teamwork, and a commitment to enhancing the overall student experience within the diverse and vibrant
- Spearheaded the organization of magnificent events like Illumination during Diwali and Hall Day, preserving the rich cultural heritage of IIT Kharagpur | Played a pivotal role in planning, conducting, and organizing various sports events, providing a platform for students to showcase their talents this involvement reflects a commitment

AWARDS AND ACHIEVEMENTS

- Recognized and selected for the prestigious National Merit Scholarship in the year 2018, reflecting academic excellence and outstanding achievements
- Successfully qualified in the GATE 2023 examination, demonstrating proficiency and competence in the chosen field of study.

EXTRA CURRICULAR ACTIVITIES

- Football Player: Captain of B zone University football team which stood up as Winners, Mar'2020 | Represented CORAL as Academic Unit Representative at Academia-Industry Conclave 2023 to showcase different domain expertise of the centre | Done a Reseach on Wireless power transmission technology to establish a startup

!Self declared by the student, CDC could not verify the relevant documents