



EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2024	B.TECH	IIT Kharagpur	8.77 / 10
2019	CBSE	RPS	87.6%
2017	CBSE	DAV PUBLIC SCHOOL	9.6 / 10

INTERNSHIPS

Amazon Software Development Engineer Intern	May'23-Jun'23
<ul style="list-style-type: none">Developed a comprehensive onboarding system using Java for the backend, achieving 100% test coverage to ensure its robustnessSeamlessly integrated the onboarding system with React enhancing the frontend functionality and ensuring backward compatibilityConducted comprehensive beta testing and successfully deployed frontend and backend changes into the production environmentAchieved 430% reduction in page load times by implementing pagination and column filtering through internal API enhancementsEnhanced database search capabilities by adding tsvector columns and applied changes using Liquibase on a cloned database	
Allyantr Trainee Research Engineer	Jan'23-Mar'23
<ul style="list-style-type: none">Leveraged the use of MoveNet for real-time exercise key point tracking, ensuring precise data capture and analysis during workout routineUsed Java/Kotlin in Android Studio to create a mobile app that identifies and quantifies exercises, providing real-time feedback to usersUtilized Python in conjunction with a pre-trained model to validate exercise classifications, ensuring accuracy and improving reliability	

PROJECTS

Movie Booking Site Self Project	Nov'22-Jan'23
<ul style="list-style-type: none">Developed a responsive movie booking site using React, HTML and CSS to provide users with an intuitive platform for booking ticketsImplemented Node.js, Express.js, and MongoDB technologies to establish a thoroughly seamless and efficient server-side infrastructureImplemented user registration, login/logout, and enriched user interaction through CRUD operations, bolstering data security	
MultiPDF Interactor Self Project	Jun'23-July'23
<ul style="list-style-type: none">Utilized Streamlit, PyPDF2, and LangChain to develop a chat application for extracting insights from multiple PDFs documents efficientlySuccessfully harmonized LangChain, OpenAI API, and HuggingFaceHubAPI, fostering natural interactions within the applicationCreated an optimized system to extract PDF text, segment it, and enhance chatbot performance, ensuring data-driven insights	
Predicting Estimated Rainfall in Flood Effective Regions	Aug'23-Present
<i>Supervisor: Prof Jhareswar Maiti, Department of Industrial and Systems Engineering, IIT Kharagpur</i> <ul style="list-style-type: none">Conducted EDA on regional weather data, utilizing feature engineering to improve rainfall prediction models for flood-prone regionsEmployed LSTM, ARIMA models for data-driven flood risk mitigation, encompassing data collection, preprocessing, and model trainingThe algorithm was fine-tuned to deliver a MAPE of 24.43% and an R-squared (R^2) of 0.812, indicating high predictable variance	
Statistical Learning Course Project Prof Sayak Roy	Feb'23-Mar'23
<ul style="list-style-type: none">Coded LDA, QDA, SVM, KNN and Bayes algorithms classifiers from scratch, and validated results on 3 dataset using K-Fold and LOOCVDecreased RMSE by 34% using Tree-Based Algorithms, GAMs and Cubic Splines to predict 4 cybersecurity parameters from 15 features	

AWARDS AND ACHIEVEMENTS

<ul style="list-style-type: none">Ranked nationally among the top 0.32 percent in the JEE MAIN 2020 out of 1.12 million+ applicants appearing for the examinationStood among the top 2.63 percent among 1 million+ active users, and achieved a rating of 2000+ on Leetcode (handle coder_pro2305)Achieved rank of 558 among 21.5k+ users registered in Leetcode Weekly Contest and earned a knight badge (handle coder_pro2305)Stood among top 4.23 percent among 0.397 million+ teams participated in Flipkart Grid 5.0-SD track 2023 (handle 686157-U7V4I51R).Stood among the top 5.08 percent nationally and achieved a maximum rating of 1450+ (specialist) in codeforces (handle codiway)Stood among the top 6 percent out of 50.5k+ teams that participated in TVS Credit E.P.I.C 5.0 - IT Challenge 2023 (handle Cdc)	
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SKILLS AND EXPERTISE

Languages and Frameworks : C++ C Java R JavaScript HTML Express.js Python React.js CSS
Platforms and Tools : LT Spice Falstad Free Cad MS-Word MATLAB Git MongoDB MySQL Arena CPLEX RStudio Blender
Libraries : Numpy Pandas Matplotlib Streamlit Scikit-learn Datetime Tensorflow-keras Statsmodels Seaborn OpenCV

COURSEWORK INFORMATION

Computer Science : Programming and Data Structures (Theory + Lab)
Mathematics : Probability and Statistics Modern Algebra Transform Calculus Linear Algebra and Complex analysis Advanced Calculus
Other : Statistical Learning With Applications Recommender Systems in E-Business Economics Supply Chain Management Financial Engineering Simulation Engineering Economy Quality Design and Control Operation Research I & II Work System Design

POSITIONS OF RESPONSIBILITY

Core Organizing Team Member Spring Fest	Sep'21-May'22
<ul style="list-style-type: none">Coordinated Mumbai sponsorship drive, raising over INR 0.31 million, marking a 13% YoY increase solely from alumni contributionsConducted the nationwide prelims in Patna across over four different genre achieving almost 90% YoY increase in participationAchieved a 138 percent YoY increase in registration count, coupled with 100% increase in entry count for Nrityakala eventCoordinated International Carnival and Indie Carnival inviting artists from India, USA, Poland, Germany, Sweden and Ireland	

EXTRA CURRICULAR ACTIVITIES

<ul style="list-style-type: none">Selected as a part of Choreography team of Lal Bahadur Shastri Hall of Residence in Inter-hall Gymkhana CompetitionSelected as a part of gold winning March Past team of Lal Bahadur Shastri Hall of Residence in Inter-hall Competition 2022	
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