



EDUCATION

| Year | Degree/Exam | Institute | CGPA/Marks |
|------|--------------------------------|--|------------|
| 2020 | M.TECH Dual Degree 5Y | IIT Kharagpur | 7.08 / 10 |
| 2015 | Intermediate Board Examination | Tirumala Junior college, Rajamundry | 93.9% |
| 2013 | Secondary School Examination | Sri Krishnaveni Talent School, Hyderabad | 8.7 / 10 |

INTERNSHIPS

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|---|----------------------|-----------------|
| Software Developer Intern | Cultino Agrotech | May 19 - Jul 19 |
| <i>Received Pre-Placement Offer for consistently exceeding expectations across all deliverables during the summer internship</i> | | |
| <ul style="list-style-type: none">Developed an app level real-time full text search engine using Elasticsearch by indexing all the documents from the PostgreSQL RDSRevamped the news feed API by denormalising and shifting to a NoSQL database which improved the latency from 1200ms to 200msImproved feed experience was partly responsible for the increase of daily user engagement time by 40% and daily active users by 35%Performed server-side functions to maintain a steady flow of information to ensure an uninterrupted working of the production server | | |
| Data Science Intern | SmartCoin Financials | Dec 18 - Jan 19 |
| <ul style="list-style-type: none">Worked solely on a project titled 'Feature Distribution Stability Analysis of Forward Data Using Entropy Based Binning Algorithm'Designed a robust recursive algorithm in python which discretises each feature of a multi-class dataset based on the information gainFormulated and tested several statistical metrics to quantify the level of distribution stability of a feature from entropy discretised dataImplemented RandomForest to predict defaulters using H2o's enum encoding which resulted in the increase of AUC from 0.68 to 0.72 | | |
| Data Science Intern | ORMAE | May 18 - Jul 18 |
| <ul style="list-style-type: none">Worked on a project titled 'Profit and Risk Optimisation of Crop Field with Mixed Variety of Crops Using Evolutionary Algorithm'Scraped pricing time-series data for the project from different agronomy websites using python web scraping library BeautifulSoupCrafted problem specific crossover and mutation functions to preserve the desired positional uniqueness of each individual genomeOptimised the objective function to near global optima despite of all complicated interdependences between crops and crop cycles | | |

PROJECTS

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|--|---------------------------|-----------------|
| Bachelor Thesis | Prof. Debasis Chakraborty | Aug 18 - Apr 19 |
| <i>Title : Truck Dispatch Cost Optimisation Using Genetic Algorithm</i> | | |
| <ul style="list-style-type: none">Formulated the cost function by considering the cost of transportation and cost of maintenance of trucks in between multiple routesImplemented a new mutation function which resulted in an improvement of optimisation speed by 40% compared to a traditional GA | | |
| Expense Monitor | | Sep 18 - Nov 18 |
| <ul style="list-style-type: none">Ideated and built a web application that lets users keep track of their daily expenses between different wallets, lendings and debtsDeveloped the backend using a python web framework Flask following Model-View-Controller structure and used MySQL database | | |

SKILLS AND EXPERTISE

Languages : Python, C++, C, MATLAB/Octave, Java, PHP, Javascript
Tech Stack : PostgreSQL, MySQL, BigQuery, Flask, Elasticsearch, JQuery, Tensorflow, PyTorch, Scikit-learn, DEAP
Technical Skills : Software Development, Deep Learning, Computer Vision, Data Visualization

COURSEWORK INFORMATION

Probability and Statistics | Data Structure and Algorithm | Operations Research | Quantitative Decision Making | Geostatistics | Economics
Machine Learning (Stanford University) | Convolutional Neural Networks for Visual Recognition (Stanford University)

POSITIONS OF RESPONSIBILITY

| | | |
|--|---------------------------------|-----------------|
| Captain | Ad Design, RK Hall of Residence | Jul 18 - Apr 19 |
| <ul style="list-style-type: none">Led the Bronze Winning team of 25 members from Radha Krishnan Hall of Residence in the Inter Hall Ad Design Competition 2018-19 | | |
| Design Head | Spring Fest, IIT Kharagpur | Apr 17 - Mar 18 |
| <ul style="list-style-type: none">Led a team of 20 members in developing the theme of Tribal Treble and its aura in Spring Fest 2018 creating impact on over 40,000 peopleConceptualised the design and publish of advertisement modules of events to reach out the students of 250+ colleges in 7 major citiesIntroduced a 3-tier working structure in design team to systemize the planning and execution of defined work within given timeframeMentored over 300 registered students in summer training program, guiding them on projects of graphic design & creative design thinking | | |
| Design Sub-Head | Spring Fest, IIT Kharagpur | Jul 16 - Apr 17 |
| <ul style="list-style-type: none">With a 2-tier team of 17 members designed, publicised and promoted events through digital media, banners and other creative artworksCo-Headed a team of 10 members to design the arena for over 20 major sponsors and making theme based decorative installationsSpearheaded the conduct of graphic design workshop to demonstrate efficient scripting in Photoshop and Illustrator to over 500 students | | |

EXTRA CURRICULAR ACTIVITIES

- Led the **bronze** winning team for designing an Ad campaign on a crowd-sourced review forum for artists; Inter Hall Ad-Design (2018-19)
- Received **1st position** for minimising the cost of customer retention of a telecom company; Safety Data Analytics Challenge (2017)
- Part of a **bronze** winning team that designing an Ad campaign on a mobile app that blocks all distractions; Inter Hall Ad-Design (2017-18)
- Led the sets team of **silver** winning dramatics team in Social and Cultural General Championship; Inter Hall English Dramatics (2017-18)
- Participated in Inter Hall Ad-Design, Basketball, Data Analytics, Dramatics, Hardware Modelling in the duration of 2016 to 2019