



EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2022	M.TECH Dual Degree 5Y	IIT Kharagpur	8.56 / 10
2017	CBSE Class XII (AISSCE)	D.A.V Public School, Patna	92.8%
2015	CBSE Class X (AISSE)	D.A.V Public School, Patna	10 / 10

INTERNSHIPS

MTX Group, Hyderabad <i>Machine Learning Intern</i> Player Similarity : Created a model capturing characteristics of players' overall style & skill from a database of 10 seasons (5mn+ actions) <ul style="list-style-type: none">Formulated data pipelines to extract & pre-process the data from Wyscout and ingested it into our Data Lake (Cloud Storage, BigQuery)Fabricated a NMF(Non-negative matrix Factorization) model along with feature engineering to capture, quantify the player attributesConstructed several baseline similarity models with RestFull APIs (Flask) to support user interested outputs, & containerised using Docker Roster Analysis : Developed the architecture to recommended and rank players for various positions within any selected formation in soccer <ul style="list-style-type: none">Reckoned the similarity score between player & formation-position vector, followed by combinatorial optimization with Hungarian algo Assembled new variables using Feature Engineering and filtered the primary attributes using statistical methods including multicollinearity <ul style="list-style-type: none">Built XGBoost models to accurately predict the probability of scoring & conceding opportunity using 5-fold cross-validation on 1mn points	May'21 - August'21
Coneio Exim Private Limited, Hyderabad <i>Software Development Intern</i> <ul style="list-style-type: none">Delivered code for extraction of HSN Code and Description data from pdf and a tool for Description to its HSN Code searching with RegexObtained n-grams from the various description of traded goods in different HSN categories using Fuzzy and TFIDF algorithmsCreated a program to automatically detect SCOMET items using NER and developed a dynamic drop down for species selectionUsed RegexpParser and NLP to segregate object specifications and quantity from the provided description of the imported itemsBuilt a cloud-hosted dynamic web application for product to HSN code mapping using BERT and achieved 87% accuracy on test set	June'20 - August'20
Bhugol Analytics, Mumbai <i>Data Extraction and Processing Intern</i> <ul style="list-style-type: none">Achieved an accuracy of 76% with Regex and indic_transliteration in extraction of data from unstructured Marathi recordsCollated information from the Real Estate Regulatory Authority website and stored information in MySQL database tablesClassified 3100 companies across the country into various sectors based on the Global Industry Classification Standard	May'19 - June'19

PROJECTS

Contact Graph for COVID-19 modelling <i>Guide: Professor Adway Mitra, Centre for Excellence in AI, IIT Kharagpur</i> <ul style="list-style-type: none">Built a web application to fetch the Contact Graph of a corona infected person based on his geospositional coordinatesConnected the application to the real-time geospositional data stored in MySQL database along with bluetooth based location dataAdded Trajectory imputation using the Kalman Filters for missing geo-coordinates in small interval for obtaining probable contactsCreated code to obtain complete contact graph in a selected timeframe and subsequent cluster analysis using K-means and Louvain algo	December'20 - February'21
An Ensemble Approach to Link Prediction <i>Guide: Professor Sujoy Bhattacharya, VGSOM, IIT Kharagpur</i> <ul style="list-style-type: none">Applied top-(e,k) predictions and threshold techniques in Latent Factor method to speedup the link prediction in graphsResearched on ensemble approach using node, edge and biased edge bagging methods to further improve the efficiencyExtended the bagging+ methods to other prediction methods like AA, RA, Jaccard Coefficient and Preferential AttachmentCarried out efficiency and effectiveness comparisons of Bagging and Bagging+ methods with their conventional methods	August'20 - November'20

POSITIONS OF RESPONSIBILITY

Sponsorship Head and Workshop Coordinator, Kshitij 2020 <i>Responsible for garnering sponsorship for Asia's largest Techno-Management Fest with a total budget of INR 1.2 Crores</i> <ul style="list-style-type: none">Coordinated nine different workshops which provided hands-on skills to the participants and revamped Anadigix event in 17th edition	April'19 - April'20
Core Team Member, Kshitij 2019 <i>Garnered {INR 3.82 Lakhs} through alumni contribution and corporate sponsorship, publicized fest and conducted Sand-Rover Event</i>	July'18 - April'19

AWARDS AND ACHIEVEMENTS

- Won a **Silver** medal in Inter-Hall Chem Quest competition 2019 by designing Diethylene Glycol(**DEG**) transportation system
- Awarded Kishore Vaigyanik Protsahan Yojna **2016** fellowship by Department of Science and Technology, Government of India
- Secured State Rank **2** in National Standard Examination in Physics and Ranked in **top 1%** out of **2 lakhs** students nationally

SKILLS AND EXPERTISE

- Programming Languages:** C | Python (Libraries:NLTK, Scikit-learn, Spacy, Tkinter, Selenium, Tensorflow, Regex) | Java | C++ | Prolog
- Softwares and Tools:** MySQL | GCP | MS Office | Git | AWS(EC2, S3, RDS, DynamoDB) | PuTTY | XAMPP | MATLAB

COURSEWORK INFORMATION

- Programming Courses:** Algorithms and Data Structures | Machine Learning | Deep Learning | Artificial Intelligence
- Mathematics Courses:** Probability and Statistics | Transform Calculus | Numerical Solution of Partial Differential Equations