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| **EDUCATION** |
| **M.Tech in Industrial and Management Engineering (CGPA 8.67, Rank 4/25) IIT Kanpur(2018-20)**   * Mr. & Mrs. S.N. Mittal Gold Medal for all round performance in academics and extra-curricular, IIT Kanpur. * Student senate Y18 (2019-20) Vision: Better incorporation of the voice of the PG student in the Gymkhana. * Awarded A\* in Probability and Statistics (IME 602) for outstanding performance.   **B.Tech in Mechanical Engineering (CGPA 8.45, Rank 2/80) PMEC, Berhampur (2013-17)**   * Awarded by Head of Department for best all rounding performance. * Secured 99.01 percentile in GATE-2018(Mechanical) among 200000 students.   **Class XII (CHSE, Odisha): 82.5% | Class X (BSE, Odisha): 87.16%** |
| **WORK EXPERINECE** |
| **Commodity Price Forecasting,** Strategy - Analytics & Cognitive Consulting at Deloitte India**| Python, GCP, Apache Beam**   * Built an Intelligent Buying Platform in partnership with google cloud, to forecast commodity price and give real-time insights for informed decision making, to improve efficiency, accuracy and optimize value. * Designed a template to plug the data for, post commodity selection and identify relevant price impacting factors. * Automated in built feature creation engine, built a ML/AI engine to select the best fit model and generate forecasts and Designed Google data studio screens for visualize the key insights. * Designed an ETL batch pipeline for data ingestion by leveraging Google Dataflow using Apache beam module. * Used ARIMAX and Random forest model for monthly, LSTM for Daily and Bayesian methods for weekly forecast and used out of time validation techniques for model selection based on RMSE score. |
| **MTN Customer Churn Prediction,** Strategy - Analytics & Cognitive Consulting at Deloitte India **| Python, GCP, K3s, Kubeflow** |
| **INTERNSHIP** |
| **Business Analyst, Mphasis Next-lab (2019)**  **Process Flow analyser (Convert Process map to industry standard XML code using Image processing techniques) | Python**   * Identify the Cross-functionalities (Leverage morphological operations with the creation of custom kernels). * Localize and classify the symbols (Leverage contour properties and contour Hierarchy). * Localize the arrows, identify the extreme end and classify them (Leverage contour properties), identify sequences of symbols (adjacency matrix to represent directed sequence among Nodes). * Visualization of directed graph from adjacency matrix using NetworkX python package. * Create and parse an XML documents using xml.etree.cElementTree python packages. |
| **M.Tech THESIS** |
| **Aspect Based Helpfulness Prediction of Amazon Product Review Data | Python, Java, Text Mining**   * Extract transferable and product-independent high-level aspects from the reviews using product category information and a special type of generative topic model called Twitter-LDA. * Build a two-layer architecture Support vector regression model for aspect based helpfulness by leveraging textual features from reviews (Structural, Empath based, General Inquirer and Aspect based). * Compare it with based models by spearman’s correlation coefficients metrics. |
| **OTHER PROJECTS** |
| **Stochastics calculus (Martingale process & its applications) | Python**   * Appling martingale stopping and convergence theorems to study Constrained random walk (gambler’s ruin problem), an Urn process, ABRACADABRA Problem and simulate the results. * Simulate stock price using Geometric Brownian motion where martingale properties hold.   S**cribble Sketch (Ongoing hobby project) | Python**   * A machine that can create scribble drawing (but not only) created by series of algorithms written in Python. |
| **TECHNICAL SKILLS** |
| * Statistical modelling, Machine Learning(predictive), MLOps, Image processing, Data engineering(ETL design). * Programming language: Python, R, SQL, Apache Beam, Java * Tools/Framework: GCP (AI Platform, Kubeflow pipeline, Dataflow, Bigquery, Cloud build), TensorFlow, Keras, CI/CD, Docker, Containerization |
| EXTRACURRICULAR ACHIEVEMENTS |
| |  | | --- | | Finished **First** in **High jump** at school level (2004, 05, 06, 07) and in zonal level (05, 06, 07).   Member of **district zone Relay race team** (Finished 2nd).   Finished **2nd** in High jump in **JOSH-19(intra IIT sports festival).**   Member of **Inter-Branch winning Cricket team in ARENA 2k16** (Annual sports meet, PMEC). | | |  | | --- | | * Completed **Pin Parvati Pass trek (Himachal Pradesh)** having altitude 17,500 Ft and distance 110 Kms in 8 days (Oct 2018). * • Completed **Sandakphu trek (West Bengal)** having altitude 12,000 Ft and distance 60Km in 6 days (Feb 2020). | | | |  | | --- | |  | |  * Teaching assistant for course **: INDRODUCTION TO STOCHASTIC PROCESSES AND THEIR APPLICATIONS(IME 625A)**. * • Teaching assistant for course **: ADVANCE STATISTICAL MODELLING FOR BUSINESS ANALYTICS(IME 692A)** | |  |  | | --- | --- | | |  | | --- | |  | | |