

Yashwant Singh

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EDUCATION

Georgia Institute of Technology

Aug 2021 - Dec 2022

Master of Science in Analytics, Computational Data Analytics Track

Coursework: Machine Learning, Web Search and Text Mining, Data Mining and Statistical Learning, Analytics Modeling, Regression Analysis, Computing for Data Analysis/Python,

Indian Institute of Technology, Kanpur

Jul 2013 - Jun 2018

B.Tech - M.Tech Dual in Materials Science and Engineering

SKILLS

Programming: Python, R, SQL, MATLAB, C

Visualization: Looker, Google Analytics, Tableau, ggplot, seaborn

Analytical Techniques: Regression Analysis, Clustering, Classification, A/B testing, PCA, Optimization

PROJECTS

COX-MSA Project Week, Georgia Institute of Technology, Atlanta

Jan 2022

COX project on effective utilisation of Full Band Capture (FBC) to reduce operational costs

- Extracted relevant features using tsfresh, further reduced dimensions using UMAP, used HDBSCAN to cluster the FBC data to identify common impairment patterns and evaluated models using DBCV score to find the optimum model.
- Created Network graph using NetworkX by storing the ancestor list data in a dictionary. Reduced the time complexity by a factor of 10^4 as compared to Least Common Ancestor (LCA) at the expense of increasing space complexity
- Achieved lossless compression by 55% storage reduction and 86% file read time reduction by converting csv files to Parquet format.
- Awarded 3rd position among 18 teams

Regression Analysis, Georgia Institute of Technology, Atlanta

Aug 2021 - Dec 2021

Course project on identification of factors of NBA teams contributing to regular season game winning percentage

- Scraped over 25 years worth of NBA regular season team data which included ~170 predictors and ~700 data points.
- Evaluated model assumptions and goodness of fit and dealt with high multicollinearity among predictors using VIF.
- Used stepwise regression, lasso regression and elastic net regression for variable selection.
- Selected model had 13 predictors and an adjusted R^2 value ~94%

PROFESSIONAL EXPERIENCE

ShareChat, a social media platform (funded by Tiger Global, Twitter, LightSpeed Venture Partners)

Associate Product Manager

Sep 2020 - June 2021

- Built a full fledged grievance redressal and ticketing system keeping an average ticket resolution closure time to less than 8 hours to comply with Intermediary Guidelines and Digital Media Ethics Code Rules 2021 for OTT and digital platforms
- Led a team of 5 to migrate CleverTap (a tool used for analytics and notifications) to Looker (analytics tool): Built Looker models from scratch while retaining all CleverTap functionalities, thereby reducing cost by 90%, translated to savings worth \$27k/month
- Optimized Tag Filtering: Coordinated with 2 Data Science team members to build models for ensuring relevant content on the platform, increasing average content relevance to 90% from 70%
- Worked with 2 Data Science team members to build an in-house Not Suitable For Work (NSFW) model to replace a 3rd party model; saved \$25k/month

Product Analyst

Sep 2019 - Aug 2020

- Built algorithms to optimize moderation and tools to moderate ~1 Mn daily posts (videos, images, gifs, text) with the help of 2 external vendors, namely, Nanonets and InfoSearch
- Worked with Nanonets to optimize NSFW model, which translated to saving ~\$20k/month in manual moderation cost

Myntra, an e-commerce platform

Jul 2018 - Aug 2019

Data Analyst

- Optimized processes and hygiene, storage, order-fulfillment, returns, excess shipments, and unproductive inventory of 4 Myntra and Jabong warehouses across India
- Used Python to build a tool to improve line balancing and produce proactive alerts to reduce leakage in customer order consolidation, resulting in 2% decrease in leakage and annual savings worth \$250k
- Performed daily checks and identified defaulting vendors to limit warehouse-initiated cancellations, reducing the cancellations quotient from 1% to 0.2%, which saved ~\$14k in cancellation losses within a year
- Assisted respective warehouse teams with suggestions in implementing changes in the order-fulfillment process, resulting in shrinking order to pack (O2P) time from 4.0 hours to 3.0 hours

EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- Gold Medallist in basketball tournament at Udghosh, held at IIT Kanpur 2017
- Bronze Medallist in basketball in inter-IIT tournament held at IIT Madras 2017
- Silver Medal in basketball tournament held at IIT Varanasi sports festival Spardha 2016
- Remained a member of the inter IIT-contingent to win the Sports General Championship, among 16 IITs at IIT-K 2016