

ASHISH DHIMAN

+1(404) 509-0254 | Atlanta, GA

ashish1610dhiman@gmail.com | [linkedin.com/in/ashish1610dhiman](https://www.linkedin.com/in/ashish1610dhiman) | [ashish1610dhiman.github.io/ad_cv/](https://github.com/ashish1610dhiman)

EDUCATION

Georgia Institute of Technology, Atlanta, USA

Master of Science in Analytics: Computational Data Analysis & Analytical Tools Track

Aug 2022 — Dec 2023

Relevant Coursework: Analytical Modeling, Machine Learning, Regression, Deterministic Optimisation, Big Data Analytics[#], Bayesian Statistics[#], Data & Visual Analytics[#], Graph Algorithms[#], Large Scale Data Analysis[#], Foundations of Ethical ML[#]

Indian Institute of Technology, Kharagpur, INDIA

GPA: 8.32/10.0 | Class Rank 2

B.Tech(Honours) in Aerospace Engineering, with Specialisation in Optimisation Theory

Jul 2015 — May 2019

Relevant Coursework: Programming & Data Structures, Probability & Statistics, Linear Algebra, Operations Research, Optimisation Methods in Finance, Nonlinear Programming, Numerical Solution of Differential Eqns., Managerial Economics

WORK EXPERIENCE

American Express, Credit & Fraud Risk

Gurgaon, India

Senior Analyst - Data Science

Aug 2021 — Jul 2022

- **Trade Linkage Graph:** Developed graph network basis shared trades in bureau data for yearly default savings of **\$2.5M**
- **Delinquency Index:** Used balance & delinquency time series data to improve capture of high balance defaulters by **1.1%**.
- **Covid Payment Plan:** Sr VP award for developing a xgboost pipeline on AWS to identify customers availing pmt. relief.
- **Subprime Data:** Used DataX, Teletrack & Clarity from Equifax/Experian to add **74bps GINI** lift in low tenure defaulter.
- **Feature Selection:** Gradient Boosted method & min-Redundancy Max-Relevance on data of **24M rows** using map-reduce.

Analyst - Data Science

Aug 2019 — Jul 2021

- **Customer Segmentation:** Predicted external issuer with highest **share of wallet** in bureau, to identify growth buckets.
- **Resume Parsing:** Slashed resume screening time by **30%** with NLP: **zero-shot classifier**, & Named Entity Recognition.
- **Covid Trigger Parsing:** Analyst of Quarter for automated dashboards from trigger data, using cron, helping save 3 days.
- **External Pmt. prediction:** Improved accuracy of the model by **7%**, using Synthetic minority over sampling **SMOTE**.

Analyst Intern - Data Science

May 2018 — Jul 2018

- **Customer Contact Prediction:** Improved GINI of External Contact GBM model by **16%** and reducing variables by **22%**.
- **Hyper-parameter optimization:** Developed a automated grid search module of **GBM** with Python & Bash, saving 1 day.

Quantiphi Analytics Pvt. Ltd, Athena's Owl

Mumbai, India

Decision Science Intern

May 2017 — Jun 2017

- **Object Detection:** Adjudged Best Intern-2017, for developing Object detection module of Athena's Owl using **(R-CNN)**.
- **Web Scraping:** Implemented a module to scrape meta-tags out of unstructured data, using **Selenium & BeautifulSoup**.

TECHNICAL SKILLS

- **Programming languages:** C | C++ | Python | MATLAB | Scala | SQL | R | SAS | Octave | \LaTeX | Bash | Excel
- **Software/Frameworks:** AWS | Pyspark | Spark | Hive | Tableau | Hadoop | Map Reduce | Deepnote | Git | OOPs
- **Machine Learning:** Big Data | XGBoost | A/B Testing | Optimisation | Forecasting | Database | Statistical Modelling

PROJECTS & PUBLICATIONS

University of Otago, Information Science Department

Dunedin, New Zealand

Research Intern

May 2019 — Jul 2019

- **MCMC Search on Grammar:** Published in **IJCAI'21** to infer Norms expressed as instances of Probabilistic Grammar.
- Applied Monte Carlo Markov Chain (**MCMC**) technique to sample the posterior distribution of Candidate Norms.
- Transposed **Gelman Rubin** measure to analyze the convergence of MCMC chains in grammar space using **tree kernels**.

IIT Kharagpur, Vinod Gupta School of Management

Kharagpur, India

Bachelor's Dissertation

Aug 2018 — May 2019

- **Enhanced Index Tracking:** Used MILP with Heuristic Kernel Search framework to improve investment return by **12%**.
- Used Nonnegative Principal Components and Nonnegative Matrix factorization to abstract the short-term noise in the model.

AWARDS & ACHIEVEMENTS

- Achieved an **All India Rank within Top 0.5%** in the JEE 2015, among the 1.3 million registered applicants.
- Received letter of appreciation (2015) from **HRD Minister**, Gov. of India, for ranking amongst the Top 1% in Class 12.
- Finished with **Class Rank of 2** at IIT Kharagpur and awarded **Gymkhana Award** for contribution to Inter Hall events.

[#]Expected Future Courses