

# Madhav Datt

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## EDUCATION

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### University of Texas | Masters in Computer Science (GPA - 4.0)

Coursework - Design and Analysis of Algorithms, Database Systems, Operations Research

Arlington, Texas

Aug 2021 – May 2023

### University of Mumbai | Bachelors in Computer Science (First Class)

Coursework - Data Structures, Object-oriented Software Engineering, Data Mining

Mumbai, India

Aug 2011 – Jul 2015

## PROJECTS

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### Underwriting Control Room, ICICI Lombard Ltd.

Jul 2020 - Jan 2021

- Built solution for underwriting department, aimed at reducing loss ratio by making AI-based automated recommendations to portfolio budget mix, achieving significant improvements of 4%-6%
- Identified anomalous claim patterns, built random forest and gradient boost models to estimate claims costs.
- Designed optimization model (proc optmodel), simulated business scenarios for maximizing profitability.

### Loan default portal, UGRO Capital

Jan 2020 - May 2020

- Built a loan default prediction model to aid consumer credit department in operational ease for disbursement, reducing average turnaround time by 18mins, helping improve application count by over 400%.
- Developed logistic regression and decision tree models for estimating probability of clients failing on payments.
- Deployed model 'as a service' to an AngularJS-based web app using a micro analytic score REST API, allowing applicants to enter details in form fields, and providing near real-time decision results.

### Telecom Churn Prediction, Robi Axiata Ltd.

May 2019 - Aug 2019

- Created a churn & up-sell model to identify at-risk customers and improve average revenue per user.
- Used decision tree model to segment subscribers, improved classification by 3% through hyperparameter tuning.

## WORK EXPERIENCE

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### Systems Engineer | SAS Institute, Mumbai

Dec 2017 – Jul 2021

- Developed data science solutions with proprietary products; positioned platform differentiators by building data pipelines for preprocessing, exploratory analysis, and predictive model building in conjunction with senior data scientists.
- Demonstrated value proposition in presentations to C-suite stakeholders. Also supported channel partners in creating project-specific delivery models & implementation roll-outs.
- Collaborated with the marketing team in developing assets and hosting webinars. Assisted education team in structuring software training course curriculum as product owner for SAS Visual Analytics (India practice).

### Lead Analyst | iTree Consulting, Mumbai

Aug 2015 – Jun 2017

- Led multiple BI solution deliveries such as 'Manpower Analytics' (for efficient workforce allocation), 'Collection Forecasting' (for estimating project profitability), and 'Dealer Analytics' (to predict promotion effectiveness).
- Supervised project progress, and represented the team in milestone review meetings with customers.
- Participated in hiring process by conducting technical interviews. Also hosted hands-on client training and group seminars in the capacity of software specialist, aimed at improving software adoption amongst students and business users.

## PROFESSIONAL ASSOCIATIONS

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- **Graduate, SAS Customer Advisory Academy:** Represented India in a talent pool of 16 countries for a sponsored 18-week internship, received training in developing capabilities for tackling big data problems using analytics life cycle.
- **Event Coordinator, Computer Society of India:** Organized hackathon event at annual festivals 'Reconnaissance' & 'RUBIX', spearheaded publicity campaign to boost participation by 30% over last year.
- **Shipping Associate, Food Bank of North Carolina:** Assisted in creating assorted food bundles to be boxed and dispatched to a calamity-affected site

## PROGRAMMING SKILLS

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**Languages:** Python, C++, Java, SQL, HTML, SAS

**Libraries and Technologies:** pandas, scikit-learn, numpy, aws sagemaker

**Softwares and Tools:** Excel, Power BI, SQL Server, BusinessObjects, Tableau, Visual Analytics, Azure, Colab