

Anand Kumar

Data Scientist | Machine Learning

Working as a Research Associate , skilled in ML techniques, statistics, problem-solving, and programming. Role includes providing knowledgeable insights into the data with extensive use of data analytic tools and techniques, both business contextual and statistical

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WORK EXPERIENCE

Research Associate

Indian Institute of Management, Ahmedabad

01/2023 - Present

Achievements/Tasks

- Collaborating with Prof. Sanket Mohapatra on Policy Briefs on External Commercial Borrowings (ECBs)
- Contributing to research and organizing of conferences for Misra Centre for Financial Markets and Economy
- Developing collaborative relationships with other researchers, program administrators, and policymakers to provide relevant and timely research

Consultant - I

EXL Services

06/2022 - 11/2022

Tasks

- Developed a predictive model to identify the erroneous transactions before the generation of the first invoice using **Stack**, **Voting** & **CatBoost** Classifiers
- Achieved **accuracy** of **24%** in the operational efficiency post-optimization of audit sampling criteria
- Generated savings in revenue adjustments by **\$139K** from model implementation

Research Intern

IIM Kozhikode

05/2020 - 07/2020

Project Title: Gender Perception and Employment

Tasks

- Constructed a combined dataset using six waves of the **world value survey** for India at state & national levels to understand the impact of gender perception on employability
- Used multi-class **Multinomial Naive Bayes** classification to identify gender-based variables with a 98% accuracy, wherein the gender discrimination observed
- Earned **Letter of Appreciation** for accomplishing the project, and generating a **high-quality** performance

CERTIFICATES

Bloomberg Market Concepts (11/2018 - 12/2018)

Introduction the financial markets, valuation techniques, currencies, fixed income and equities

Virtual Student Mobility Programme (05/2021 - 05/2021)

7 day IIT Kharagpur/ University of Edinburgh Virtual Student Mobility Programme on Water-Food-Public Health Relationships

EDUCATION

ECONOMICS (M.Sc. 5Y)

Indian Institute of Technology, Kharagpur

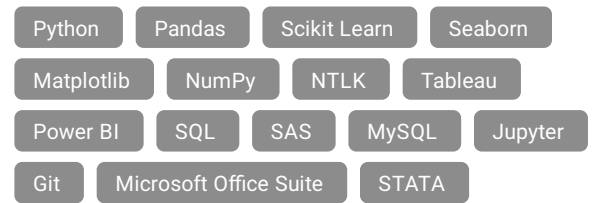
08/2017 - 04/2022

GPA/Marks : 9.18 / 10

Thesis

- Machine Learning Approach for Inflation Forecasting in India: Three crucial ML methods for forecasting. Evaluated benchmark model moving average (MA) for the same period of prediction & calculated improvement of each ML method to benchmark models

SKILLS



SELF PROJECTS

COMPANY BANKRUPTCY PREDICTION

<https://github.com/anandkumarprajapati>

09/2021 - 10/2021

Tags: **SMOTE**, **XGBoost**, **Information Gain**, **Feature Engineering**, **Recall**

Tasks/Achievements

- Developed a binary classification model using algorithms such as **XGBoost**, and **Stacked** Classifiers to capture the underlying patterns and predict whether a company will go bankrupt.
- Understood the **correlation** of features by using a **heatmap** after **capping outliers**. Performed **EDA** and extracted important insights using various visualization techniques
- Handled data imbalance using techniques such as **Tomek Links** and **SMOTEEN** and normalized the necessary features to ensure smoother model performance.
- Experimented while creating various models combined with feature selection and sampling, achieving a **precision** of **88.3%** and **recall** of **86.6%**.

AMAZON BOOK RECOMMENDATION SYSTEM

<https://github.com/anandkumarprajapati>

10/2021 - 11/2021

Tags: **Recommender Systems**, **SVD**, **Collaborative Filtering**, **Cosine Distance**, **Cold start problem**, **Recall**

Tasks/Achievements

- Developed a **book recommendation system** for amazon customers using **collaborative** and **content-based** filtering by utilizing the ratings of books and user features
- Implemented **collaborative-based filtering** using the **KNN** algorithm and created the sparse matrix to obtain user-item interactions, and employed cosine distance to find user-item similarities
- Built an SVD model-based filtering and performed **cross-validation** and achieved **recall@5** of **37.8%** and **recall@10** of **43.4%**.

HONOR AWARDS

Merit Cum Means Scholarship (08/2018 - 08/2022)

Indian Institute of Technology, Kharagpur

- Recipient of the **MCM** Scholarship for **four** consecutive years
- Secured rank 1 in **4** consecutive semesters & overall rank **5th** in (Int) M.Sc Economics