

# Anas Jafry K K

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## SUMMARY

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Highly skilled Data Scientist with over 5 years of experience in analyzing complex data sets, implementing innovative solutions, and developing robust applications. Proficient in Python, R, Pyspark, and various technologies, with a proven track record of delivering data-driven insights and streamlining processes. Strong expertise in property data analysis, credit trends automation, consumer segmentation, and text extraction. Committed to continuous learning and leveraging cutting-edge tools to drive business success. Seeking opportunities to contribute my analytical and programming skills to drive innovation in a dynamic work environment.

## EDUCATION

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### • Indian Institute of Technology, Madras

*B.Tech with integrated M.Tech in Biological Engineering CGPA: 7.1*

Chennai

*July 2013 – May 2018*

## EXPERIENCE

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### • Tiger Analytics

*Data Scientist*

Chennai

*Aug. 2018 - Present*

- **Guided Selling Suggested Orders:** Created an ML workflow for a B2B commerce app's Suggested Order analytics, enhancing store owners' order suggestions. Employed Spark LightGBM for product selection and Spark XGBoost for quantity determination. Resulted in a significant 5% increase in Net Revenue.
- **Property Listing Triggers Analysis:** Conducted an in-depth analysis of property listing data for a retail lender, assessing its potential to predict loan losses and estimate mortgage amounts. Investigated consumers triggering the property listing program and their subsequent credit inquiries and tradelines.
- **Credit trends report Automation:** Developed a solution in Pyspark to automate the credit trends monthly report for a leading credit bureau. Automated the script to generate plots for the credit trends presentation. Reduced the turnaround time for report generation.
- **Consumer Segmentation:** Implemented an approach to identify various consumer groups using credit transactional data for a major credit bureau. Identified target consumer groups, for product launch, based on characteristics of the individual clusters. Created clusters using **K means** with and without **PCA** and evaluated the model using **Silhouette scores**
- **Text Extraction:** Developed an approach to extract and normalise payee name from description field of credit transaction data. Extracted payee names by identifying key patterns in data using regex. Normalised the extracted payee names with a master list of payees, using string matching (calculating **Levenshtein distance**)
- **Modelling Team:** Commercial real estate pricing- identified and quantified key pricing drivers for each individual market. Created a **price elasticity model** to estimate likelihood of conversion at different price points
- **Pricing Power App:** Designed a web tool in RShiny for leasing team to curate the competitor comparable properties and adjust the price elasticity curves accordingly
- **Self Automation:** Developed a tool in R to optimize the turnaround time for model refresh. Formulated modules to automate feature engineering, modelling and validation. Reduced the model refresh time by 50%
- **Research on Rent Growth:** Estimated portfolio level quarterly rent growth rates by Time series forecasting (**ARIMAX**). Adjusted the estimated rent growth rates with competitor data using **Bayesian** approach and compared with actual rates to determine the drivers for the gap between them.

### • Accelerate

*Full Stack Developer*

Chennai

*Aug. 2016 - July 2017*

- **Online Orders:** Designed the architecture of starter application for the restaurants to take online orders
- **Cloud POS:** Developed the core backend for cloud based POS and ERP software in PHP. Integrated multiple payment gateways and third party tools.
- **Development:** Developed desktop and mobile applications and dashboards using AngularJS, Ionic and Electron. Created tools for fraud order detection, sales analytics and customer history based recommendation.
- **Mentoring:** Responsible for giving technical guidance and code review to the junior team members

### • Appnomic Systems

*Data Science Intern*

Bangalore

*Summer 2016*

- **Research Work:** Implemented and benchmarked an in-house solution in Python to detect anomalies in net banking using Birch Clustering
- **Analytics Dashboard:** Developed a dashboard in Django Framework and REST APIs communicating the core solution to display the results

- **Computational Neuroscience Lab, IIT Madras**

*Research Project under the guidance of Prof. Dr. V S Chakravarthy*

*Dec. 2017 - May 2018*

- **Thesis:** Reconstructed brain EEG signals using **adaptive Hopf oscillators** and implemented neural filters to filter out different brain wave frequencies.

## PROJECTS

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- **Topic Modelling:** Implemented Topic Modelling on Short Texts using **Latent Dirichlet Allocation** and deployed on production using Flask API. Developed a classification API to classify the input (short text) into topics.
- **CBCS, University of Allahabad:** Studied the inter subject correlation during naturalistic movie screen processing using Restricted Boltzmann's Machine
- **Students Dashboard:** Conceptualized and created application for Schools for enhancing the Teacher – Parent communication. Implemented academic performance analyzer, scholar leaderboard and workflow for leave application, fee payment and student's assignments

## PROGRAMMING SKILLS

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- **Languages:** : R, Python, Pyspark, SAS, C, C++, PHP, JavaScript, NodeJS, AngularJS, SQL, HTML, CSS
- **Technologies:** : RShiny, Scikit-learn, Pandas, Numpy, Pytorch, Tensorflow, REST APIs, AWS, Django, Flask, Ionic
- **Databases:** : MySQL, HQL, MongoDB