

JAGANNATH BANERJEE

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Education

Stanford

Certificate in **Machine Learning**; Grade - 95.6%

Coursera

Apr 2017 - Aug 2017

Sikkim Manipal Institute of Technology

Bachelor in Technology (Electronics & Communication) ; First Class with Distinction

Sikkim, India

June 2003 - June 2007

Skill Highlights

Programming : Python (Pandas, Scikit-learn, NumPy, SciPy, Matplotlib, Seaborn), SQL
Machine Learning : Regression, Classification, Feature Engineering, Data Scrapping, cleaning and consolidation, Model validation and Model Boosting.
Visualization Tools : Tableau and Splunk
Statistics : Exploratory Data Analysis, Data and Sampling distribution, Confidence Interval, Regression, Classification, A/B Testing, Hypothesis Testing
Version Control : Github, SourceTree
Additional Skills : Cobol, JCL, DB2, Datacom, VSAM, MQ, Easytrieve, Excel VBA, VB script, MS-Office

Rewards & Recognitions

- Associate of the Year
- Guiding Star
- eKnowvator
- Star Award
- Kudos

Kaggle Experience

Telco Customer Churn Analysis

Sep 2018

Performed detailed exploratory data analysis and built classification model to predict customer churn with 65% F1 Score based on 24 customer attributes. [Kaggle Kernel](#)

UCI Wine Quality Prediction

Aug 2018

Performed detailed exploratory data analysis and built regression model to predict wine quality score based on 12 physiochemical attributes. [Jupyter Notebook](#)

Work Experience

Cognizant Technology Solutions | Senior Associate

July 2015 to Present

Project - Settlement Monitoring and Analytics system (SMAS)

Tech Stack - Python (Pandas, Scikit-learn, NumPy, SciPy, Matplotlib, Seaborn), SQL, Tableau, Splunk, DB2, MQ

Product is responsible for predicting merchant funding, billing and settlement, benchmarking and tracking settlement performance, analyzing transaction authorization approval and declines, targeting right debtors with right collection strategies and analyze, prevent and detect fraud transactions. As solution architect, I have

- Collected, cleaned, analyzed and processed complex structured dataset using Python, SQL and Tableau.

- Applied regression models to predict merchant funding and billing amount. Model accuracy-81%. Saved approx. \$850 million in SLA fines.
- Applied classification models to determine customer churn based on the tenure, product usage and spending pattern. Helped in increasing revenue by 15%.
- Fraud Prevention –Used combination of logistics regression, Bayesian model, random forest classification, clustering, feature engineering and anomaly detection algorithms to identify features to detect fraud. Model accuracy 65% and work is in progress to improve the model.

Cognizant Technology Solutions | Associate- Projects

June 2013 – June 2015

Project – Enterprise Technology Upgrade

Tech Stack - Python (Pandas, NumPy, Matplotlib), SQL, Splunk

Enterprise Technology Upgrade is an enterprise level initiative to conduct organization infrastructure upgrade of server and network, operating system, middleware, database, security layers and encryption methodology to ensure PCI compliance and integrity, accuracy and safety of transaction, authorization and other sensitive data and prevent data breach and cyber theft. As solution architect, I was responsible for:

- Building the enterprise wide analytics and grouping the solution by operation VP, operating system, middleware, database, security layers thereby reducing 20% incident request, saved \$200K+ in licensing cost and 5000+ man hours
- Reduced 40% manual effort by building peak season authorization & settlement monitoring tool
- Creating data design, managing, controlling and maintain the data throughout the program lifecycle
- Creating alerts, reports and insights for C level executives.

Cognizant Technology Solutions | Associate - Projects

Nov 2012 – June 2013

Project – Merchant Migration and Reporting

Tech Stack - Cobol, JCL, DB2, Datacom, VSAM, MQ, Easytrieve, Excel VBA, VB script, MS-Office

This project involved merchant payment system migration from Whitney Bank to First Data. As part of the project, I was responsible for:

- Designing, developing and managing the migration lifecycle consisting 10+ member team across multiple geographies.
- Build data mapping and billing procedures for merchant demography, fees and equipment details
- Create transaction and authorization insights and analytics for C level executives

Cognizant Technology Solutions | Programmer Analyst

Dec 2007 – Nov 2012

Project – Merchant Posting and Fee Billing

Tech Stack - Cobol, JCL, DB2, Datacom, VSAM, MQ, Easytrieve, Excel VBA, VB script, MS-Office

Posting and Fee Billing team was responsible to create and maintain financial invoice of transactions, fee, merchant statement and funding invoice post receiving feeds from merchant POS terminals, associations and other associated feeds. As an analyst, I have:

- Analyzed requirements, created technical design document, code, test and implement the solution in IBM Mainframe
- Provided post implementation validation reports to stakeholders
- Trained new developers on technical and domain competencies. expert