

Sankalp Devasthali

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EDUCATION

Carnegie Mellon University

Aug 2017 - Dec 2018

Master of Information Systems Management (MISM) - Business Intelligence and Data Analytics (BIDA), 3.48

Coursework: Machine Learning, Unstructured Data Analytics, Database Management, Econometrics, Advanced Business Analytics, AB Testing, Marketing Digital Media, Decision Making Under Uncertainty, Java

University of Mumbai, Mumbai, India

Aug 2015 - July 2015

Bachelor of Engineering (BE) - Electronics Engineering (ETRX), 3.66

SKILLS

Data Science: **Python** (TensorFlow, Sci-Kit Learn, SpaCy, OpenCV, Pandas, Matplotlib, BeautifulSoup, Keras), **R** (DPLYR, GGLOT, Shiny, Web Dev), **Java** (Array, LinkedList, HashMap), **Excel** (Risk Solver), **Minitab**, **AB Testing**

Data Warehousing: **ETL** (Ab-Initio, Informatica, Power BI, QlikView), **SQL** (Oracle DB, Microsoft SQL, Teradata)

EXPERIENCE

Van Eck, New York, NY – IT Data Group Intern (Data Engineer)

June 2018 – Present

- Building ETL solutions to optimize stock market data transfer pipeline between Van Eck's clients and improving data retrieval for company website and dashboarding
- Automating existing static PowerShell based processes to dynamic Microsoft Power BI and SQL Server methods
- Training in Agile methodologies and shadowing investment analysts in active and passive security trading

Accenture, Mumbai, India – Application Development Analyst

Oct 2015 – May 2017

- Facilitated a US insurance client's forecasting procedure through data warehousing solutions by utilizing ETL tools
 - Awarded "Everyday Champion" award for expediting the automation, integration, and implementation of over 120 ETL processes in the production phase over 20 builds enabling a reduction in efforts by 15 man-hours per week
 - Migrated legacy systems to newer pipelines by collaborating with 7 partner firms and upper management to streamline data storage and retrieval. Presented changes to clients through Portfolio Management Tools
 - Managed a weekly proprietary process to calculate and store predicted data patterns in OLAP data marts
 - Supplied comprehensive solutions to business-critical applications by carrying out ad-hoc data loads and holding walkthroughs with client members and business analysts
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PROJECTS

Breaking CAPTCHA Images, CMU

- Achieved 72.6% and 64% image level accuracy in identifying CAPTCHAs from the Google Street View House Numbers (SVHN) dataset through Convolutional Neural Networks (CNN) and Support Vector Machine (SVM), respectively

FIFA Game Characteristics, Personal Project

- Explored and visualized the FIFA 18 soccer game dataset to find wage disparity, team characteristics, player attributes and versatility, and average player face using Scikit-Image, Pandas, BeautifulSoup, and Matplotlib

Twitter Data Sentiment Analysis, CMU

- Evaluated tweets for belief in existence of global warming on Figure-Eight's dataset repository
- Scrapped real-time query-based Twitter data to analyse and predict positive or negative sentiment behind tweets

Ham and Spam Classification, CMU

- Achieved 93.7% test prediction accuracy on Enron Ham and Spam emails dataset after selecting optimal algorithm with best k-folds cross-validation fit among Naive Bayes, K-Nearest Neighbours, and Support Vector Machines

Go Green Pittsburgh, CMU

- Analyzed a quarter million records from Pittsburgh Water and Sewer Authority through regression models to estimate the rebate amount required to compensate Pittsburgh city home owners for installing green infrastructure

Measuring Effect of Product Placement on Online Platforms, CMU

- Performed Randomized Control Trial (AB Test) using Difference in Differences Regression to assess the impact of product placement on online platforms to measure customer engagement

Homer Consultancy Database, CMU

- Designed an Employee and Project Management System using a Relational DBMS and provided insightful reports on employee performance, project earnings, and client engagement through analytical statements
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ACTIVITIES

President, Heinz Internet of Things Club, CMU

Oct 2017 – Present

Founding Member, VPL – An Innovative Auction Based Soccer League

Aug 2013 – May 2015