

# 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)*

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)*

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## 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)

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## 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