

## SUMMARY

Recent graduate from Carnegie Mellon University interested in meriting an enriching full -time/internship opportunity in the field of data science, machine learning and data analytics.

A proactive learner with relevant professional experience and an aptitude to adopt new technologies quickly.

## EDUCATION

**Carnegie Mellon University (CMU), Pittsburgh, PA**

Aug 2017–Dec 2018

Masters in Chemical Engineering with specialization in Machine Learning and Data Science

**Birla Institute of Technology and Science (BITS)- Pilani, India**

Aug 2011–Jul 2016

Bachelors in Chemical Engineering; Masters in Biological Sciences

## SKILLS

*Programming Languages:* Python, MATLAB, Java, C++, R, FORTRAN, SQL

*Software:* ALAMO, MS Office, SAS, Aspen, GAMS, Eclipse, COMSOL, Android Studio, Weka

## SPECIALISED COURSEWORK

Machine Learning, Applied Data Science, Reinforcement Learning, Process Systems Engineering, Mathematical Modeling, Microbiology, Biochemistry and Bioinformatics

## PROFESSIONAL EXPERIENCE

**Machine Learning Engineer (Part-time), Prescouter Inc., PA**

Aug 2018–Dec 2018

- Developed a Naive Bayes classifier to perform database (~1.6 million documents) search through lemmatization and countvectorizer approach
- Improved search speed by 20% after optimizing parameters through grid search with cross validation

**Data Analyst, ZS Associates, India**

Jul 2016–Aug 2017

- Enhanced sales by 5% using DCF financial model to optimize promotion strategy and sales tactics
- Formulated GTM strategy via sales force deployment analysis for 6 drugs (\$50 million+ rev. potential)
- Identified setbacks in marketing and promotional response for companies in the global healthcare sector by building multivariate regression models

**Marketing Analyst Intern, Beckman Coulter, India**

Jul 2015–Dec 2015

- Leveraged research insights and team inputs to design accurate and evidence-based forecasting models along with clear visualization of key data sets
- Promoted a newly developed assay, HPV Oncotect, through competitive analysis in South East Asia

## RESEARCH EXPERIENCE

**Graduate Research Assistant, Centre for Advanced Process Decision Making, CMU, PA**

Aug 2017–Dec 2018

**Diagnosis of Breast Cancer through Machine Learning**

- Built a classifier achieving 98% accuracy through optimization and error maximization sampling
- Engineered features to improve the correlation coefficient and sensitivity of the model through ALAMO

## ACADEMIC PROJECTS

**Gradient Boosting: Healthcare Expenditure Model | Python**

Jan 2018–May 2018

- Developed a healthcare expenditure model with gradient boosting classifier using MEPS data
- Optimized the model by applying feature reduction through principal component analysis

**Neural Network: Image recognition | Python**

Jan 2018–May 2018

- Built a custom neural network with one hidden layer for optical character recognition
- Obtained an accuracy of 80% on the MNIST dataset

## LEADERSHIP & ACHIEVEMENTS

- **1st Prize**, Hackauton, CMU
- **CHEMSA**, Vice President, CMU
- **Soccer Team**, Captain, BITS Pilani

Apr 2018

Jan 2018–Dec 2018

Aug 2013–Aug 2014