

# ARCHANA KALBURGI

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## EDUCATION

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### Stevens Institute of Technology

GPA: 4.0

*Masters of Science, Computer Science (Machine Learning)*

*Jan 2021 - (Expected) Dec, 2022*

### Visvesvaraya Technological University

*Bachelor of Engineering, Computer Science*

*2011 - 2015*

## COURSES

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Machine Learning Fundamentals and Applications, Knowledge Discovery and Data Mining, Deep Learning, Web Mining

## EXPERIENCE

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### IOP Technologies

Aug 2018 - March, 2020

*Data Engineer*

*Bangalore, Karnataka*

- Designed and developed data ingestion pipeline (ETL) from 4 different structured data sources.
- Implemented web scraping modules with Beautiful Soup.
- Aided in developing ML module for predicting prices to help make buy/sell decision for electricity units in the Australian market using Facebook's Prophet (Python).

## PROJECTS

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### Job Change Prediction

(Python)

- Applied machine learning (ML) algorithms over Kaggle HR Analytic data set to predict if an employee would quit or stay in the company and analyzed performances of algorithms.
- Performed Exploratory Data Analysis (EDA) to obtain insights from data.
- Derived correlation between the predictor variables and the target variable, that in turn helped to obtain the most contributing features in decision-making.
- Spearheaded a team of four in organizing and delivery of the project.

### Sentiment Analysis for IMDB Movie Reviews

(Python)

- Performed classification on IMDB movie reviews to predict positive and negative sentiments over Kaggle IMDB data set.
- Extracted feature-set from reviews using natural language processing (NLP) techniques and applied principal component analysis (PCA) to reduce higher dimension data to a lower dimension.
- Applied classification algorithms and tabulated the results before and after feature extraction, which helped in fine-tuning the performance of the algorithms.

## TECHNICAL STRENGTHS

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### Languages

Python, R, Object Oriented Programming (OOP)

### Database

PostgreSQL

### Machine Learning

k nearest neighbor(KNN), naive bayes, logistic regression, linear regression, support vector machine(SVM), random forest(RF), decision trees

### Tools/Framework

Avro, MATLAB, Pytorch, Tensorflow, Keras, Numpy, Pandas, scikit-learn, matplotlib, seaborn, NLP, NLTK, GIT, Flask, Jupyter Notebook, Microsoft Excel, Google Colaboratory