

## **EDUCATION**

**Master's in Computer Science**, The University of Texas at Dallas

*Expected May 2021*

**Bachelor's in Electronics & Communication Engineering**, National Institute of Technology, India

*June 2017*

## **TECHNICAL SKILLS**

- **Languages:** Java, C/C++, C#, Python (NumPy, SciPy, Pandas), SQL, PHP
- **Web Technologies:** JavaScript, HTML5, CSS3, XHTML, AJAX, jQuery 3.3, Bootstrap 4.1, AngularJS, node.JS, RESTful webservises
- **Statistical Methods:** Hypothetical Testing, ANOVA, Time Series, Bayes Law, Principal Component Analysis, Dimensionality Reduction, Cross-Validation, Autocorrelation
- **Machine Learning:** Regression analysis, Bayesian Method, Decision Tree, Random Forests, Support Vector Machine, Neural Network, Sentiment Analysis, K-Means Clustering, KNN and Ensemble Method, Natural Language Processing
- **Databases:** MySQL, SQLite, PostgreSQL, Oracle, Teradata
- **NoSQL Databases:** MongoDB, Cassandra
- **Operating Systems:** Unix/Linux, MacOS, Windows
- **BI Tools:** Tableau, MicroStrategy, Power BI, MS Excel
- **Methodologies:** Agile, Scrum, Waterfall
- **Relevant Coursework:** Data structures & Algorithms, Operating Systems, Database Design, Discrete Mathematics
- **Soft Skills:** Problem solving, Analytical thinking, Teamwork, Effective communication, Decision making, Time Management, Dependability, Focus, Agility

## **WORK EXPERIENCE**

**Technology Consultant, PricewaterhouseCoopers Private Limited**, Kolkata, IN

*July 2017-July 2019*

- o **MicroStrategy Developer**
  - Performed revenue leakage analysis for a leading Pharma company, reducing overall leakage by 75%.
  - Working with a team of developers designed, developed and implemented an automated workflow to flag key leakage areas
  - Created various schema objects such as Attributes, Hierarchies, Facts and defined Relationships by developing logical models for reporting as per business user requirements.
  - Implemented YTD, MTD and QTD analysis using Table and Formula based transformation.
  - Created cubes to increase the performance of Reports and Dashboards
  - Performed Unit testing, SIT testing
- o **Tableau Developer**
  - Visualized regional sales patterns for a Retail giant which resulted in increase of regional sales by 8.5%.
  - Worked extensively with customized Charts, Parameters, Maps, Trend Lines, Statistics and Table calculations.
  - Created Workbook Permissions, Ownerships and User filters.
  - Developed interactive dashboards with report scheduling in Tableau Server.
  - Gained expertise in all phases of Software Development Life Cycle (SDLC) including requirement analysis, design, development, implementation, delivery and troubleshooting

## **ACADEMIC PROJECTS**

- o **Aspect based sentiment analysis using Twitter API**
  - Used python to connect to Twitter API for collection of 100 live tweets
  - Data visualization done on a Tableau Dashboard consisting of product selection, overall sentiment and top tweets which gave a comprehensive real time statistical analysis at a glance.
- o **Machine learning tool which implemented Logistic Regression model for Attrition prediction**
  - Performed EDA like univariate analysis, hypothesis testing and multicollinearity checks on the statistics of mock datasets
  - Implemented a binary classifier for statistical modeling based on logistic regression to solve problems due to the dichotomous nature of the response variable
  - Created interactive data driven predictive analytics dashboard to help HR decide key performers to target for higher retention rates
- o Word puzzle solver using linear probing hashing technique and Trie data structure in Java.
- o GUI program to generate and display a maze using disjoint set data structure in Java
- o WordPress blog automation using DevOps

## **AWARDS AND POSITIONS OF RESPONSIBILITY**

- Recipient of prestigious merit based Jonsson School Graduate Study Scholarship for being among the top 1% of applicants
- Individual Spot Award for distinguished performance and impactful contribution to team at PwC
- Member of Society of Women Engineers
- Volunteer at after-school Coding Club for elementary school children, UTD CS Outreach