

# KAUSHIK PATIL

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## EDUCATION

Northeastern University, Boston, MA

May 2021

Master of Science, Information Systems

3.54 GPA

**Relevant Courses:** Application Engineering and Development, Data Science Engineering and Tools, Data Management and Database Design, Web Development Tools and Methods, Engineering of Big-Data Systems, Designing Advanced Data Architectures for Business Intelligence, High-Performance Parallel Machine Learning and AI, Advanced Big-Data Applications and Indexing

University of Mumbai, India

June 2018

Bachelor of Engineering, Electronics and Telecommunication Engineering

**Relevant Courses:** Operating Systems, Structured Programming Approach, Object Oriented Programming Methods

## PROFESSIONAL EXPERIENCE

Wysetek Systems Technologists, India

Feb 2019 – July 2019

Customer Support Representative (CSR)

- Responsible for working in IBM Power series team towards providing service support for RISC based UNIX servers
- Diagnosed and troubleshoot issues reported by AIX Operating System and its subsystems and provided support to High Availability Clustering Technology (HACMP), server virtualization and Storage Area Network (SAN)
- Regulated IBM Storage Manager 10 client for V5000, v7000 Storwise through LINUX administration with error logs after scheduling and performing backup and restore operations, server monitoring and health check.

## TECHNICAL SKILLS

**Programming Languages:** C, C++, JAVA, Python, SQL

**Web Technologies:** HTML, CSS, JavaScript, JSON, jQuery, NodeJS, Spring MVC, Hibernate, Angular, ReactJS

**Tools and IDEs:** NetBeans, Jupyter, Arduino, Microsoft Visio, Eclipse, MySQL Workbench, Hadoop, MapReduce, Apache Hive, Apache Pig, Apache Mahout

**ML and AI:** Logistic Regression, K-NN, Naive Bayes, Random Forest, Decision Tree, SVM, NumPy, Pandas, Matplotlib, SciPy, SciKit Learn, Cuda, Librosa, CNN, PyTorch

**Databases & Servers:** MongoDB, HBase, Apache Cassandra, MySQL, SSMS, Oracle 18c, PostgreSQL, Tomcat

**Business Intelligence tools:** ER Studio, Alteryx, Talend, PowerBI, Tableau

## ACADEMIC PROJECTS

Music Genre Classification with Deep Learning

Sept 2020 – Dec 2020

- Trained 4-layer CNN with spectrogram conversion of image dataset with Data Parallelism using Cuda on NEU Discovery High-Performance Computing Cluster, Nvidia V100-SXM2 GPU and Intel Xeon Gold 6132 CPU
- Achieved an accuracy of 83% to determine the genre of the music after cross validation with multiple genres

IMDb Data Analysis and Visualization

Sept 2020 – Dec 2020

- Extracted and staged 100+million rows of movies from IMDb core datasets such as IMDb, Box Office Mojo, The Numbers, and MovieLens, and imported data from MySQL and TSV files
- Implemented data integration by ETL Workflows using Talend for integrating data in a dimensional model from Staging to BI
- Analyzed data into BI schema from dimensional model with interactive BI dashboards in PowerBI and Tableau

Amazon Sports Reviews Big Data Analysis

May 2020 – Aug 2020

- Performed unique operations on Amazon Sports Reviews using Big data tools such as MapReduce, Hive and Pig
- Developed SQL type scripts for rapid MapReduce operations through Hive and Pig compared to Hadoop by 80%
- Produced graphs and dashboards using Tableau for go-through analysis of the deliverables for easy understanding

E-Commerce Database System

Jan 2020 – Apr 2020

- Designed an E-Commerce database with Entity Relationship Diagram (ERD) which helps the Director of Supply Chain and Business Operations of company to address problems and take strategic business decisions
- Created views, stored procedures, user defined functions and trigger for easy access to specific data contents

2BeConnected Web Application

Jan 2020 – Apr 2020

- Planned JAVA application for contacts for simple directory with all information which can be initial setup for Skype
- Developed contact app website using Spring Web MVC Framework and Hibernate for mapping and NetBeans IDE
- Created an interactive auto home and static web pages for graphical and unique UI experience with HTML and CSS
- Built multiuser – admin and user website with user registration and login functionality with strict input validations

Sentiment Analysis of Amazon Product Reviews

Sept 2019 – Dec 2019

- Analyzed and performed feature engineering on Amazon Product Reviews of Fashion, Appliances and Prime Pantry
- Explored and classified the Customer sentiments into positive or negative using Natural Language Processing (NLP)
- Evaluated different accuracies of machine learning algorithms like Logistic Regression 72%, K-NN 62%, Naive Bayes 87%, Random Forest 76%, Decision Tree 62% and SVM 80% and found Naive Bayes the most optimal algorithm method with cross validation of the trained model for the desired output after sentiment analysis of the reviews

CVS Ecosystem App

Sept 2019 – Dec 2019

- Built JAVA application using Java Swing components to link CVS retail stores, Supplier and Delivery and merged multiple panels for networks, enterprises and organizations for efficient working for retailer and customer side