

Kaushik Patil

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EDUCATION

Northeastern University, Boston, MA

Expected: **May 2021**

Master of Science in Information Systems

GPA: 3.54 / 4.0

Coursework: 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, Parallel Machine Learning and AI, Advanced Big-Data Applications and Indexing Techniques

University of Mumbai, Mumbai, India

Jun 2018

Bachelor of Engineering in Electronics and Telecommunication Engineering

EXPERIENCE

Wysetek Systems Technologists, Mumbai, India

Feb 2019 – Jul 2019

Customer Support Representative (CSR)

- Provided service support to RISC based **UNIX** servers in IBM Power Series team of 5 for clients in CtrlS Tier 4, Vodafone and DAKC datacenter and regulated IBM Storage Manager 10 through **LINUX** administration with error logs after scheduling and performing backup and restore operations, server monitoring and health checks

ACADEMIC PROJECTS

Music Genre Classification with Deep Learning

Sep 2020 – Dec 2020

Skills: **Python, NumPy, Pandas, Matplotlib, Cuda, CNN, PyTorch**

- 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 genre of music after cross validation with multiple genres

IMDb Data Analysis and Visualization

Sep 2020 – Dec 2020

Skills: **SQL, MySQL, SSMS, ER Studio, Alteryx, Talend, PowerBI, Tableau**

- Deployed ETL pipelines using Talend and Alteryx to source data from multiple source systems including multiple relational databases and flat files
- Executed SCD, Rejection Logics, Data & Currency Conversion, Normalization to adhere to data quality management
- Improved master job by parallelization and serialization to optimize and decrease execution time by 42%

Amazon Sports Reviews Big Data Analysis

May 2020 – Aug 2020

Skills: **Java, SQL, Hadoop, Apache Hive, Apache Pig, MongoDB, HBase**

- Initiated 15 MapReduce Algorithm operations through JAVA app for 1-click analysis for specific deliverables
- Prepared SQL type scripts for rapid MapReduce operations through Hive and Pig compared to Hadoop by 36%
- Prioritized top customers and products for future purchases and decision making for increasing profits by 20%

2BeConnected Web Application

Jan 2020 – Apr 2020

Skills: **JAVA, NetBeans, HTML, CSS, JavaScript, JSON, jQuery, Spring MVC, Hibernate, MySQL**

- Formulated contact app website using Spring Web MVC Framework and Hibernate for mapping and NetBeans IDE
- Set up an interactive auto home and static web pages for graphical and unique UI experience with HTML and CSS
- Controlled Create, Read, Update and Delete (CRUD) operations with search contact and details easy access feature

Sentiment Analysis of Amazon Product Reviews

Sep 2019 – Dec 2019

Skills: **Python, Numpy, Pandas, Matplotlib, SciPy, SciKit Learn, Jupyter**

- Analyzed and performed feature engineering on Amazon Product Reviews of Fashion, Appliances and Prime Pantry
- Explored and classified customer sentiments into positive or negative using Natural Language Processing (NLP)
- Quantified 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 Naïve Bayes most optimal algorithm method

TECHNICAL SKILLS

Languages:

Python, SQL, C, C++, MATLAB, Java, JavaScript

Web Tools and Framework:

HTML, CSS, JSON, jQuery, NodeJS, Spring MVC, Hibernate, Angular, ReactJS, Spring, REST

Big Data Tools:

Hadoop, Apache Hive, Apache Pig, Apache Mahout, Apache Kafka, Elasticsearch

Machine Learning:

NumPy, Pandas, Sci-Py, Scikit-learn, Matplotlib, TensorFlow, Keras, PyTorch, C-NN, Cuda

Databases & Servers:

MongoDB, HBase, Apache Cassandra, MySQL, SSMS, Oracle 18c, PostgreSQL, Redis

Business Intelligence tools:

ER Studio, Alteryx, Talend, PowerBI, Tableau

Miscellaneous:

Netbeans, Eclipse, Toad Data Modeler, Microsoft Visio, Java Swing