

CHAITHRA K. C

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EDUCATION

SYRACUSE UNIVERSITY, SCHOOL OF INFORMATION STUDIES	Syracuse, New York
Master of Science Applied Data Science	May 2023
Coursework: Introduction to Data Science, Applied Machine Learning, Big Data Analytics, Applied Deep Learning, Natural Language Processing, Inferential Statistics, Business Analytics, and Data Analysis & Decision-Making, and Scripting for Data Analysis	
GPA: 4.0/4.0	
JAIN UNIVERSITY	Bangalore, India
Bachelor of Engineering Computer Science	Jun 2015
Relevant coursework: Principles of Programming Languages, Java & J2EE, Data Structures, Algorithms, Database Management Systems, Data Mining, Business Intelligence, Design Patterns, Unix System Programming, and Linux Internals	
CGPA: 9.56/10.0	

TECHNICAL SKILLS

Key Skills: Machine Learning, Natural Language Processing, Deep Learning, Data Cleaning, Analysis and Visualization, Hypothesis Testing, Probability and Statistics

Programming Languages: Python, R, Java, SQL, PL/SQL, NoSQL

Python Libraries: PySpark, Numpy, Pandas, Matplotlib, Seaborn, Scikit-learn, NLTK, Spacy, Keras, TensorFlow, Gensim, Beautiful Soup, PDFMiner

Databases: MySQL, Oracle DB, Mongo DB

Tools & Utilities: Databricks, Apache Spark, Tableau, Advanced MS Excel, MS Access, Perforce, Git, Maven

IDEs: Google Colab, Jupyter Notebook, PyCharm, R-Studio, IntelliJ

WORK EXPERIENCE

Data Science Intern, RSG Media, New York	May 2022 - Aug 2022
<ul style="list-style-type: none">Developed a workflow using Databricks and Apache Spark to automatically feed historical data as input to XGBoost ML Model by converting existing SQL Queries to PySpark, which was utilized in predicting future audienceImplemented python module for entity resolution between Viacom’s program inventory & Gracenote data, and IMDb & TMDb using NLP pre-processing techniques, TF-IDF word vectorization, and K-Nearest Neighbor ML modelBuilt a data pipeline for ingesting 700 million metadata records from IMDb website to AWS S3 bucket using Python AWS SDK Boto3, after which the data underwent various data transformations and validations before being loaded into Databricks Delta TablesAggregated data from several delta tables using SQL and PySpark to generate forecast report that allowed for the comparison of predictions made by various models using MAPE and RMSE error metricsConverted SQL-based ETL pipelines source code to PySpark to enable automation	
Senior Software Engineer, Envestnet Yodlee, Bangalore, India	Mar 2018 - Sep 2020
<ul style="list-style-type: none">Developed multi-threaded data quality tool in Java to validate holding and transaction data veracity and extrapolate missing financial details based on patterns observed with other usersImplemented POC for determining suitable database for the project among OLTP (Oracle DB), Mongo DB, and Apache Kudu based on query performanceDesigned Mongo DB Collections, documents with suitable indexing, and configured Spring repositories for application queryingImplemented Netflix-Ribbon load balancer to achieve fault tolerance and distribution of application trafficCreated REST API using JAX-RS for sharing reconciliation results with other teams	
Software Engineer, Envestnet Yodlee, Bangalore, India	Jul 2015 - Feb 2018
<ul style="list-style-type: none">Built web crawlers using Java Selenium APIs to aggregate users' financial data and personal information from banking websitesCreated PDF parser for retrieving data from bank statements using Python PDFMiner text extraction toolImplemented regex validator using Java regular expressions for validating PIIReviewed the code submitted by peers and mentored couple of new hires	

ACADEMIC PROJECTS

Credit Card Default Prediction	Sep 2022 – Dec 2022
<ul style="list-style-type: none">This project used three machine learning models (Logistic Regression, Random Forest, and Deep Learning) to analyze credit card default risk without relying on credit scores or credit historyDataset consisted of 30,000 credit card users and 26 featuresRandom Forest model performed the best, with a precision of 0.80 and a recall of 0.65Most important default predictors were the most recent two months' payment status and credit limitThese models could be helpful for credit card firms, loan lenders, and banks to make educated decisions on creditworthiness	
Sentiment Analysis of COVID News Articles	Mar 2022 – May 2022
<ul style="list-style-type: none">The dataset includes news articles related to COVID-19 from UK, India, Japan, and South Korea newspapers. On the dataset of 10K news articles that were collected from IEEE data portData cleaning, pre-processing, and exploratory analysis were performed on the datasetTextual data was transformed into numeric vectors using word vectorization techniques, such as the Bag of Words (BOW) model, BERT word embedding, and XLNet embeddingUsing Naïve Bayes classifier and BiLSTM neural network, predicted sentiment polarity - Negative, Positive, and Neutral of each news article in the datasetBiLSTM model achieved an accuracy of 64%, whereas Naive Bayes algorithm had an accuracy of 78%	