

Upasana Chaudhari

Graduate Admin Assistant at Portland State University

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Educational Background

Master of Science (M.S.), Computer Science Engineering
Portland State University, Portland, USA.

Jan 2023 – June 2024
GPA – 4.0

Master of Technology (M.Tech.), Computer Science and Engineering
Specialization - Big Data Analytics
Vellore Institute of Technology, Chennai, India.

July 2017 – April 2019
CGPA – 8.76

Bachelor of Engineering (B.E), Information Technology
Amrutvahini College of Engineering, India

Aug 2012 – June 2016
Percentage – 65.25%

Experience

Analyst in Data Science

(August'19 – November'21)

Novartis Healthcare Pvt. Ltd.-India

Time Series Forecasting – Multivariate Time Series

- The key metric is Account Payable.
- Forecasted cashflow using multivariate timeseries.
- Used forecasting models like VAR (Vector Autoregression) and prophet.

Natural Language Processing (NLP) –

- Automated translation of Dossiers from English to German.
- Used bots and machine learning models to create text blocks and reunite them in a draft document.

Anomaly Detection –

- Developed a risk profile dashboard to identify geographies with a high probability of integrity and compliance violation risk.
- Used HDBScan and PyOD models for outlier detection which allows to calculate values of risk areas and visualized using Qlik Sense.

Internship

(July'18 – July'19)

Novartis Healthcare Pvt. Ltd.-India

- Got familiarized with the working of pharma industry, learnt existing KPIs (Key Performance Indicators) and the standardized performance reports.
- Analyzed and organized business review/performance review reports using dashboards and country bottom-up forecast models.
- Used QUID as NLP tool to analyze Medical Science Liaison (MSL) Notes and delivered insights report from the real-time text data base.
- Developed an Engagement platform which helps in Stakeholder Targeting, that includes Hypothesis Generation, Data Collection, Segmentation and Engagement Planning.

Master Thesis

Stakeholder Targeting and Engagement Platform -

(July'18 – April'19)

- Developed a platform to manage and maintain a profitable stakeholder relationship. Obtains the segment of the stakeholder and suggests a segment-based plan to improve the stakeholder relationship and make profits.

- Provides detailed view of the Business and the stakeholder commitment value in each Franchise.

Projects in M.Tech.

Aviation Data Analytics Using Pig and Hive

April'18

- Performed analysis on various aviation datasets using Pig and Hive framework.
- Investigated the causes of flight delay, diversion of flights, accidents analysis in aviation industries.
- Used R programming for visualization.

Clustering Similar Types of Queries

Oct'17

- Used NLP to cluster similar tweets and store the classified tweets.
- It involved information retrieval, lexical analysis to study word frequency distributions, pattern recognition, tagging, information extraction, data mining techniques including the link and association analysis, visualization, and predictive analytics.

Audio Fingerprinting in Jupyter Notebook

Oct'17

- Used audio fingerprinting algorithm to distill samples of a song into fingerprints and matched these fingerprints against fingerprints from known songs.
- Identified plagiarism in music and found out the initial inspiration to some pioneers of blues, jazz, rock, pop or any other genre.

Technical Skills

- **Languages known:** Python for Data Science, R Programming, C, C++, Java.
- **Databases:** MySQL, Neo4j, Cassandra, MongoDB, NoSQL.
- **Frameworks:** Microsoft Power Bi, Hadoop, Spark, Pig, and Hive, Jupyter Notebook, Tableau, Rapid Miner.
- **Hard Skills:** Data Analysis, Mathematics, Statistics, Data Visualization, Programming, Quantitative Analysis, Machine Learning, Debugging, Modeling, Probability.

Publication and Achievements

- Chaudhari, Upasana, and SP Syed Ibrahim. "Stakeholder Targeting and Engagement Platform." International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8, Issue-1, May 2019.
- Chaudhari Upasana, Bhirud Dnyansudha, Bhosle Uma, Malviya Nikhil. "Web Mined Aggregated Data and Fuzzy Logic Based Personalized Recommender System." International Journal of Advance Research and Innovative Ideas in Education (IJARIIE)-ISSN(O)-2395-4396, Volume-2, Issue-2, June 2016.
- DATA SCIENCE IN PYTHON Certification from Data Camp – 2021.
- Received Star Award for NLP Project – 2021.
- Received an Applause Award for an Internship Project – 2019.