

# ONKAR RANE

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## EDUCATION

### Colorado State University, Fort Collins, CO

May 2021

*Master of Computer Information Systems*

Cumulative GPA: 3.61 / 4.00

- Graduate Certificates: Business Intelligence, Business Application Development
- Relevant Coursework: Business Database Systems, Data Mining, Object-Oriented Systems, Applied Data, Applied Data Mining and Analytics in Business, Agile Management and Product Development

### University of Mumbai, Mumbai, India

May 2018

*Bachelor of Engineering in Information Technology*

Cumulative GPA: 7.04 / 10.00

- Relevant Coursework: Big Data Analytics, Data Structures, Advanced Database Management

## EXPERIENCE

### Graduate Research Assistant – Colorado State University, Fort Collins, CO

Jan 2021 – May 2021

- Elicited and documented requirements by interviewing prominent College of Business professor, gathered required data, and performed detailed analyses according to the requirements.
- Complied with comprehensive research reports and articulated the findings successfully.

### Business Intelligence Intern – FynTune Solution, Mumbai, India

Jan 2019 – Jun 2019

- Leveraged business intelligence data to formulate Tableau reports using calculations and parameters.
- Collaborated with several departments to identify end-users and streamline the relational database design.
- Implemented stored procedures, views on production database server using SQL Server Management Studio.

## PROJECTS

### ETL Pipeline ([https://github.com/onkarane/etl\\_pipeline](https://github.com/onkarane/etl_pipeline))

Apr 2021 – May 2021

**Software Stack:** Python, Apache Airflow, Pyspark, Pandas, S3, Redshift, Bash, Psycopg2

- Built an automated ETL Pipeline using Apache Airflow's DAG to process and normalize unstructured JSON data (2M records) with Pyspark and upload it to AWS S3 to be copied into the AWS Redshift data warehouse.
- Wrote Python script to create data warehouse tables, load the data into staging tables, upsert the data into production tables and perform data integrity checks after the update is completed successfully.

### Sales BI Data Pipeline & Dashboard (<https://github.com/onkarane/sales-pipeline>)

Mar 2021 – Apr 2021

**Software Stack:** Python, Azure VM, Apache Kafka, D3.js, DataMaps, PostgreSQL, Ubuntu, ZooKeeper, Flask

- Implemented low latency data pipeline using Apache Kafka and PostgreSQL on Azure VM Ubuntu System.
- Designed dashboard using D3.js and Flask-SocketIO to visualize real-time sales updates for the US regions.

### Customer Segmentation (<https://github.com/onkarane/segmentation>)

Jan 2021 – Feb 2021

**Software Stack:** Python, Scikit-learn, Pandas, K-Means, Principal Component Analysis, Standard Scaling

- Performed extensive data wrangling tasks on unstructured JSON data to remove duplicate customers, impute null values, eliminate misattribution, compute the response & conversion rates, and harmonize the data.
- Identified \$70,000 worth of lost revenue as a result of improper targeting of customers for special offers.
- Classified customers into three distinct clusters using K-Means to be targeted for marketing based on five years of transaction and reward data. Used Principal component analysis (PCA) for dimensionality reduction.

## TECHNICAL PROFICIENCIES & CERTIFICATION

- **Languages:** Python (pandas, numpy, scikit-learn, matplotlib, pyspark), SQL (PL/SQL, T-SQL), C#, R, Java, Php
- **Amazon Web Services:** Lambda, CloudWatch, Glue, Athena, S3, EC2, EMR, Redshift, RDS, MWAA, VPC, IAM
- **Big Data / ETL Tools:** Hadoop, Spark, Hive, Airflow, Kafka, ZooKeeper, MapReduce
- **Visualization Tools:** Tableau, Looker, Plotly – Dash, D3.js, Power BI, Seaborn
- **Database Development:** Stored Procedures, Triggers, Views, SSMS, SSIS packages, OLAP Cubes, Data Warehousing, Data Lake, Data Mart, Ad hoc queries, ER/EER Modeling, Query optimization
- **Tableau Desktop (in progress)** – Specialist (exp. June 2020)