

# Hemang Negandhi

7 years of experience in Data Analytics, ETL and Business Intelligence

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## EDUCATION

University of Texas at Arlington	Masters in Computer Science	May 2019
K. J. Somaiya College of Engineering	B.E in Information Technology	May 2015

## SOFTWARE SKILLS

Languages: Python, SQL	Web: HTML5, CSS3, PHP, JavaScript
Database: MySQL, MS SQL, Oracle11g	Business Intelligence: Powerbi, QlikSense, Alteryx, Tableau, SSRS, SSIS
Operating System: Ubuntu, Windows	Technologies and tools: PyCharm, AWS
Cloud Platforms: AWS (Redshift), Google Cloud	Data Engineering: ETL, ELT, Data Warehousing

## WORK HIGHLIGHTS

- **Financial Data Processing:** Processed 422 GB of data monthly using **Alteryx** workflows for BNP Paribas, empowering over 10 teams with actionable insights.
- **Movie Recommendation System:** Developed a scalable solution using **Python, Flask**, and **Google Cloud** to process 1.5M+ movie rows for predictive recommendations.
- **API Integration:** Built a dynamic **HR analytics** tool using **BambooHR API** and **Power BI**, driving data accuracy and HR process improvements.

## WORK EXPERIENCE

<b>BNP Paribas, Mumbai, India (Senior Business Data Analyst)</b>	<b>Jul 2020 - Present</b>
<ul style="list-style-type: none"><li>● Worked with <b>Alteryx</b> to analyze and design workflows to perform ETL. Hands-on experience in <b>performance tuning, and query optimization</b> in PowerBI.</li><li>● Created TDEs (Tableau Extract) for various projects and scheduled on PowerBI Server as per requirements.</li><li>● Coordinated with <b>PARIS, and MADRID team</b> to meet business requirements as well as ad hoc requests.</li><li>● Developed complex workflows and MACROS system, to process data for Tableau consumption and reporting.</li><li>● Individually enhanced and maintained a project "<b>C3 FINANCE</b>" which acts as a core data source for many teams in BNP. This project processes <b>422 GB</b> of financial data every month and provides output to over <b>10</b> teams in the organization.</li><li>● Also led in enhancing the financial data capabilities of the above project. This involved migrating the project hierarchy from <b>FIREF to GRECO_PMA</b>, which increased the bank's financial data granularity. While FIREF had <b>12</b> levels of data, GRECO has <b>30</b> levels, which enabled the bank to expand insights by <b>25%</b>, leading to better-informed decisions.</li><li>● Spearheaded the "<b>Deposit and Trend Analysis</b>" project, saving <b>786</b> work hours/year and reducing data errors from <b>10% to 2.5%</b>.</li><li>● Developed custom DAX measures for financial forecasting and risk analysis, improving prediction accuracy by 35% and enabling the risk team to make more informed decisions.</li><li>● Managed the end-to-end implementation of the PowerBI Server, providing secure, real-time access to over 150 stakeholders across global offices.</li><li>● Optimized SQL queries and data models for faster processing of large datasets, reducing report load times by 40% and increasing data retrieval speed by 50%.</li></ul>	
<b>BNY Mellon Pershing, New Jersey, USA (Business Data Analyst)</b>	<b>Sep 2019 - Mar 2020</b>
<ul style="list-style-type: none"><li>● Worked with Alteryx to develop WFs to perform ETL (<b>Data Extraction, Transformation, Loading</b>).</li><li>● Used SQL to extract data and create ad-hoc reports for data visualization on Tableau Server.</li><li>● Conducted rigorous data validation in PowerBI, ensuring accuracy by meticulously matching and verifying numbers against the database, resulting in a 95% accuracy rate.</li><li>● Actively contributed to the development of PowerBI workbooks for the EPO and corporate finance department.</li><li>● Showcased in-depth knowledge of Star dimensional schema and Snowflakes schema.</li></ul>	

## **AKA Enterprise Solution, New York, USA (Powerbi Intern)**

**May 2018 - Jul 2018**

- Performed migration of in-house app from content workspace to app workspace in Powerbi.
- Participated in the creation of **dynamic visualizations** to track employee performance.
- Established a robust API integration with Bamboo HR to ensure continuous access to real-time employee data. The tool is now used by more than **15 HR team members**, enhancing team efficiency and productivity.

## **Infogain India Pvt Ltd, Mumbai, India (Software Engineer)**

**Aug 2015 – Jul 2017**

- Collected data in QlikSense from various sources (Oracle, CSV files, MS SQL, MySQL).
- Created dynamic interactive dashboards in **Tableau, Powerbi and QlikSense**.
- Analyzed underlying data for possible discrepancies, investigated errors and implemented Incremental Load.
- Performed **ETL** using **SQL Server Integration Services (SSIS), QlikView**.
- Created real-time streaming dashboard with real-time KPIs in Tableau.
- Documenting all ETL/ELT projects and workflows including supporting documentation for troubleshooting.
- Develop Tableau workbooks to perform **YTD, QTD and MTD type analysis**.
- Generating context filters and data source filters when processing large amounts of data in Powerbi.
- Creating dashboards for measures with **forecasts, trend lines, and reference lines**.

## **CloudFronts Technologies, Mumbai, India (Intern)**

**Jun 2015 - Jun 2015**

- Acquired hands-on experience in **SSIS, SSRS and Powerbi**.
- Demonstrated working with different connectors like Oracle, SQL, Twilio, Zendesk to **Powerbi**.

## **Algonation, Mumbai, India (Intern)**

**Dec 2014 - Feb 2015**

- Gathered client requirements and created data model for healthcare project in **MySQL**.
- Created website using HTML5, CSS3, PHP and JavaScript (**CodeIgniter framework for PHP**).

## **ACADEMIC PROJECTS**

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### **Movie Suggestion System**

- Created the application using **Flask Framework** in **Python 3.6**.
- Used packages as **NumPy, NLTK, and Pandas** for word processing (performed **stemming** and **lemmatization**).
- The application used a database of **1.5 million rows** to provide prediction results of genre.
- Deployed the application on **Google Cloud**.

### **Online Advising Simulation**

- Developed a client-server multi-threaded application for an online student-teacher Advising system.
- Implemented message queuing using a producer-consumer design pattern.

### **Intrusion prevention system with SHA 256 hashing**

- Created a system to prevent intrusion attacks and implemented different levels of authorization.
- Developed features of an admin page like group approval, member approval, and group deletion.
- Used hashing SHA 256 for hashing and used fields like passwords to prevent spying.