

Bharath Babu Thota

Microsoft Azure Data engineer Certified, Mastering Power BI
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Professional Summary

- A Recent Graduate with around 2 years of Experience in IT and Non Profit Organization as a Azure Data Engineer and Information Specialist.
- Trained in Virtual Internship and gain knowledge of Structured and Unstructured Data, Data Acquisition, Data Validation, and Data Visualization.
- Proficient in SQL query writing, performance optimization, and ensuring database security and integrity.
- Experienced in data manipulation and analysis using Pandas, a versatile library for handling structured data, performing data cleaning, aggregation, and transformation.
- Proficient in data mining techniques leveraging machine learning models with a focus on utilizing NumPy.
- Skilled in implementing machine learning algorithms using Scikit-learn.
- Knowledge of various reporting objects like Facts, Attributes, Hierarchies, Transformations, filters, prompts, calculated fields, Sets, Groups, and Parameters using Power BI.
- Good knowledge of Dimensional Modeling technique, Multi-Dimensional Database Schemas like Star, Snowflake Schema, Fact and Dimensional tables and Data warehouse concepts.
- Capable in Data Flows, Data Architecture, Data Profiling, Data Cleansing, Data Processing, and the ability to create Data Dictionaries.
- Expertise in writing complex queries, using PostgreSQL and MySQL.
- Capable in MS-Excel, MS Office, PowerPoint, Microsoft Access and Version control software using Git.
- Strong communication and analytical skills and a demonstrated ability to handle multiple tasks as well as work independently or in a team.
- Well-versed in using software development methodologies like Waterfall, and Agile (SCRUM).
- Good in Problem solving and debugging skills, with a strong ability to quickly learn and understand business processes and problems to effectively develop technical solutions to their requirements
- Possess strong interpersonal, verbal, and written skills and ability to master new technologies quickly.

Education

Masters of Science in Information Technology

Valparaiso University, Valparaiso, IN

Dec/2022, **3.8 GPA** out of **4.0**(3 times Dean's list of academic Award)

Bachelors of Computer science Engineering

Acharya Nagarjuna University, Bapatla, India.

April/2018

Technical skills

- SQL and Relational Database management systems such as Postgre, MYSQL etc.
- Basics of Python and knowledge of OOPS Concepts like Class, Methods, Polymorphism, and Inheritance.
- Basics of Shell Scripting and UNIX commands.
- Knowledge on Azure cloud and Integration of Data using Azure Data factory service from various sources.
- Data Warehousing and exposure to Azure SQL database, Azure Data Lake and Synapse analytics
- ETL Processes using Azure Data Factory and Automation of Data Pipelines using Python Scripting
- Building ETL pipelines using Delta Live Tables in Databricks
- Converting and Ingesting data to Delta Lake, Incremental and streaming workloads on Delta Lake
- Advance level in Pyspark , Python and SQL programming
- Documentation, Reporting and Data Visualization using Tableau, Power BI
- Data Quality Assurance

- Data Analytics using Excel and Mathematics and statistical formulas.
- Strong Microsoft Office Suite of tools Excel (Expert - Strong V-lookup skills, Pivot tables), PowerPoint, Word.
- Ability to focus long hours doing detailed methodical data entry and cross checking.
- HR-Policies and Procedures.
- Team Leadership.
- Project Management skills like agile scrum, Time Management, and Client Interaction.

Certification:

- *Microsoft certified in **Azure Data engineer Associate (DP-203)***
https://www.credly.com/badges/613bb172-3e1a-4b6e-86b1-a13758072601/public_url
- *Mastering **Power BI** Service and **Power Query***
<https://skillssoft.digitalbadges.skillssoft.com/6cf7f067-dce4-4fd7-87af-ad73a1966835#gs.5bielt>
- *Getting Started with **Power Query** in **Power BI***
<https://skillssoft.digitalbadges.skillssoft.com/bb1a3884-9e2b-4e6b-8a82-965cd0443808#gs.5biq7i>
- *Data Loading and Visualization in **Power BI***
<https://skillssoft.digitalbadges.skillssoft.com/d62c0b62-3a6d-4898-8182-58eb448b32fe>

Professional work Experience

Michigan State University, Lansing, MI (Jan 2024- Present)

Role: **Information Technology Specialist**

Description:

The STEMM-Up program helps people with disabilities from underrepresented/marginalized communities find and advance in STEMM (science, technology engineering, mathematics and medicine) careers through training, coaching, job shadowing, and internships. As Part of this program (<https://stemmup.org>) I am responsible for designing, developing, implementing, and maintaining database systems. This includes working with the STEMM-Up team and affiliated organizations to understand their needs, designing and developing database structures, building database content, writing and testing SQL queries, and optimizing database performance.

- Developed and maintained data pipelines and infrastructure to support the organization's data-driven initiatives.
- Created intuitive dashboards and reports using visualization tools such as Power BI, presenting actionable insights to stakeholders.
- Executed SQL queries to extract, manipulate, and analyze data, ensuring efficient data retrieval and accuracy for diverse business requirements.
- Integrated Python scripting for data retrieval, manipulation, and analysis, facilitating Python-based data operations within the organization's data stack.
- Monitored ETL processes to ensure data quality and timely execution, implementing necessary optimizations for performance improvement.
- Collaborated with cross-functional teams to understand data requirements and provide technical support for data-related initiatives.
- Maintained comprehensive documentation of data pipelines, business logic, and data dictionaries to support knowledge transfer and ensure process transparency.

Startek-Aegis customer support services, India (Oct 2019 – Jan-2021)

Client: Vodafone-Idea BPO

Role: **Data Engineer**

Description:

As part of the HRIT-recruitment team, I am responsible for delivering man power to the company with a Batch Requisition ID provided by the corporate recruitment team based on the Budget level allocated to them. Perform analysis and develop workforce metrics to support and fulfill with a buffer more than the value of the requisition and monitoring the candidate's performance throughout the training and initial month at the operation level. Cross-regional

co-ordination and analysis of key HR programs including internal Band level jobs, performance management, talent management and employee survey outputs.

- Works closely with the HR Operations team to perform audit reviews and mass upload changes as necessary.
- Assist is in demand during peak volume seasons when there is a need to hire candidates for different branches and businesses.
- Identify analytic process improvements and complete necessary changes to improve operations.
- Respond to questions from HR, Employees and Managers about Employee Data Management that cannot be handled by the Contact Agents in the Service Centre.
- Propose and implement efficient processes to ensure consistency of qualitative and quantitative data while reducing the work for the HR Correspondents.
- Present findings detailing current and future impact in monthly meetings with HR Business partners.
- Conducted pre-employment screenings, coordinated the interview process, and delivered the salary structure including the bonuses, gratuity, and work nature at the Aegis.
- Create and analyze data reports, determine current trends, and establish predictive analysis to figure out whether hiring is required or not.
- Creates reports or data sets to answer specific inquiries from HR leadership.
- Identifies and implements other ideas to increase the sense of low-cost hiring techniques and overall integrity of HR data.
- Assists in preparation of data analysis presentations for cross functional managers in all departments of the business that Data to be used in executive level read-outs.
- Data is cleaned through excel and reports generated on bar charts, pie charts to address the hiring issues and finding an equivalent solution for the root cause.

Blackbuck Insights (BBI) Organization

Internship, Information Technology

Remote, Bangalore, India, **June 2022-July 2022**

- Built and managed databases using SQL.
- Utilized technical skills in Python, SQL, and UNIX to automate data processing and Cleaning.
- Demonstrated project management skills in Agile Scrum, time management, and client Interaction.
- Collaborated with cross-functional teams to ensure successful project completion.

Academic Project

Capstone project at Valparaiso University (Associate Member) August 2022 – December 2022

- Worked with a group of 40 people, segregated into 5 teams, such as the Front end UI team, the Back end team, an AWS Cloud team, a Testing team, and a Research Team.
- As a Team Member, I have worked parallel with each team and supported them technically with the user stories.
- In this project, we used an agile methodology for continuous integration and continuous delivery.
- The goal is to develop an AI that creates an article of 750-1000 words with images when the user gives a keyword string as input.
- Use APIs, Text AI, and Image AI tools based on the compatibility connecting them to the desired output requested by the client.
- As a result, we got output on the UI page with keyword string, article, and image as columns.
- The user can also download the output in the form of an excel sheet.

Tools Used: Open AI GPT-3, Java Open JDK 17, Linux, AWS cloud VM, CLI (Command line interface)