

VINESH VANGAPANDU

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PROFESSIONAL EXPERIENCE:

Jan 2021 - May 2021

Client: Nihar Info – Hyderabad, India

Role: Data engineer

Responsibilities:

- Worked with BI team in gathering the report requirements and Sqoop to export data into HDFS and Hive.
- Involved in the below phases of Analytics using R, Python, and Jupyter Notebook.
- Data collection and treatment: Analyzed existing internal data and external data, worked on entry errors, classification errors and defined criteria for missing values.
- Data Mining: Used cluster analysis for identifying customer segments, Decision trees used for profitable and non-profitable customers, Market Basket Analysis used for customer purchasing behavior and part/ product association.
- Developed multiple Map Reduce jobs in Java for data cleaning and pre-processing, also assisted with data capacity planning and node forecasting.
- Administrator for Pig, Hive and HBase installing updates patches and upgrades and worked closely with the claims processing team to obtain patterns in filing of fraudulent claims.
- Developed Map Reduce programs to extract and transform the data sets and results exported back to RDBMS using Sqoop.
- Utilized advanced PL/SQL collections such as associative arrays, nested tables, and VARRAYs to handle complex data structures and improve the efficiency of data processing tasks.
- Developed Map Reduce programs to parse the raw data, populate staging tables and store the refined data in partitioned tables in the EDW.
- Created tables in Hive and loaded the structured (resulted from Map Reduce jobs) data.

Environment: SAP, HBase, Python, Restful API's, SQL Server, Hive, Hadoop Cluster, ETL, Agile, Tableau, Java, NumPy, AWS S3, Informatica Power Center, Teradata, Java.

EDUCATION

Master's in Computer Science (Graduate Program)

May 2024

Wright State University, Dayton, Ohio – GPA: 3.0

Bachelor of Technology in Computer Science: Software Development

June 2017 – June 2021

GITAM deemed to be a University, Visakhapatnam, India – GPA 7.08

HighSchool

June 2015 – May 2017

Narayana Junior College, Visakhapatnam, India – 88%

Primary school (Central Board of Secondary Education)

April 2015

Timpany Steel City School, Visakhapatnam, India – GPA 7.2

RELEVANT COURSEWORK

Intro to Operating Systems	Machine Learning	Python with ML
Design Algo's and Analysis	Database Management	Topics in ML and AI
Advanced Excel	Java Software Development	Advanced AI
Discrete Mathematics	Probability and Statistics	Cloud Computing
Web Development	Microsoft Office	Linux/Unix

TECHNICAL SKILLS

- *Programming Language:* Python, Java, C++, HTML5, JavaScript, SQL, Advanced Excel
- *Operating Systems:* Proficient in Windows 7 and 10, Basic knowledge in Linux and Mac OS X.
- *Software Applications:* Microsoft Office Products, Orange 3.0, Jupyter Notebook, Anaconda Navigator, Power BI, IBM SPSS, VS code, X Code, Android Studio, R Studio, Terminal.

RELEVANT PROJECTS

- Led a data-driven analysis project at school considering the data provided “Atomic Wines”, leveraging expert panel ratings and chemical properties from wholesale distributors to identify underpriced wines and optimize profitability. Tasks including data preprocessing, exploratory data analysis, regression modeling, outlier detection, and model evaluation, resulting in improved pricing strategies and accuracy.
- Developed a code in C++ to implement the robot arm arranging the blocks in a list from the given initial state to the required final state of the lists (using the action methods like PUSH, MOVE, PICKUP, and PUTDOWN) using the concepts of advanced AI.
- Developed a code in python using the PULP package (used to model linear problems) for optimization for the freight transportation.
- Built a GUI for pizza selling store using **Java** and **python** frameworks using Tkinter package.
- Led comprehensive data analytics project at school considering the data given “Ohio Department of Education”, focusing on factors impacting school performance, including financing. Conducted extensive data cleaning, merging, and analysis of county and district-level datasets. Utilized Python (Spyder) for data manipulation and modeling. Produced detailed insights and recommendations through descriptive, diagnostic, and predictive analytics.

CERTIFICATIONS

- Python for Everybody – Coursera
- Machine Learning Algorithms: Supervised Learning Tip to Tail – Coursera
- Machine Learning Algorithms – Unschool
- Python Data Structures – Coursera

KEY COMPETENCIES

- Good communication skills: adept at conveying complex ideas both verbally and in writing.
- Analytical thinking and problem-solving: skilled at identifying issues, analyzing data, and proposing practical solutions to complex problems.
- Adaptability and flexibility: able to thrive in fast-paced, changing environments, and quickly adjust priorities to meet evolving needs.
- Proficient in technical tools and software: experienced in using spyder, jupyter notebook, MS office, Visual Studio code, JMP, and PowerBI, with a demonstrated ability to learn new technologies quickly.