GOWTHAM S

AI ENGINEER

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EDUCATION

Vaigai College of Engineering — Madurai, Tamilnadu, India
B.E(Computer Science and Engineering): GPA: 8.3 — **2020 – 2024**

Little Flower Matriculation Hr. Sec. School — Trichy, Tamilnadu, India
Computer Science (Mathematics)- GPA: 6.5 — **2018 – 2020**

Little Flower Matriculation Hr. Sec. School — Trichy, Tamilnadu, India
High School (10th)- GPA: 8.5 — **2017 – 2018**

SKILLS SUMMARY

- **Language:** Python, SQL, R
- **Tools:** Power BI, PowerPoint, Tableau, Mysql**,** Premiere Pro, Photoshop, FL Studio, Lightroom
- **Platforms:** Jupyter notebook, Visual Studio Code**,** Rstudio, Workbench SQL
- **Soft Skills:** Reporting Building, People Management, Excellent Communication
- **Communication:** English, Tamil

WORK EXPERIENCE

ARTIFICIAL INTELLIGENCE INTERN | IMAGECON PVT LTD | LINK — **Feb 24 – Aug 2024**

- **Data Collection and Cleaning**: This involves extracting data from various sources, handling missing values, and ensuring data quality.
- **Exploratory Data Analysis (EDA)**: Automated data extraction, transformation, and loading (ETL) processes using SQL and Python, reducing manual data processing time by 50%.
- **Machine Learning**: Designed and implemented machine learning models to predict customer churn, achieving an accuracy improvement of 15% over existing models.
- **Data Visualization**: Interns create visualizations using tools like Matplotlib, Seaborn, or Tableau to represent data insights clearly and compellingly.
- **Programming Languages**: Proficiency in languages like Python and R is essential. These languages are the backbone of data science, offering libraries and frameworks for data manipulation, analysis, and machine learning.
- **Data Manipulation and Analysis Tools**: Familiarity with tools like Pandas, NumPy, and Scikit-learn in Python, or dplyr and ggplot2 in R, is crucial for data manipulation and analysis tasks.
- **Quantify Achievements:** Use specific numbers to demonstrate the impact of your work (e.g., "improved accuracy by 15%", "reduced processing time by 50%"). Lead a project to analyse customer behaviour and segmentation, which resulted in a 20% increase in targeted marketing campaign effectiveness.

PROJECTS

Social Media Sentiment Analysis Using NLP and Python | LINK — **Nov 2024 – Dec 2024**

- Developed a Python-Based sentiment analysis tool leveraging Natural Language Processing(NLP) techniques to classify social media comments as positive, negative or neutral.
- Integrated data visualization tools like word clouds and sentiment distribution charts, with a translation feature to analyze sentiments across multiple languages, Optimized performance using threading techniques.
- Built a RESTful API to analyze text data, utilizing NLP libraries like NLTK and TextBlob for sentiment detection and emoji analysis to capture nuanced emotions in user comments

COMPREHENSIVE ANALYSIS OF SOCIAL MEDIA | LINK **June 2024 – Aug 2024**

- Developed a machine learning model to analyse of social media in emerging trends.
- Performed comprehensive analysis of social media datasets using advanced machine learning techniques in Jupyter Notebook, achieving 85% accuracy and 80% precision through meticulous data preprocessing, feature engineering, and hyperparameter tuning
- Implemented Natural Language Processing (NLP) methods including tokenization and applied algorithms such as Random Forest, Support Vector Machines, and Logistic Regression utilizing Python libraries like Pandas, Scikit-learn, and Matplotlib for efficient data handling and insightful visualizations.

DDOS DETECTION AND USING BOOSTING TECHNIQUES | LINK **Sep 2023 – Oct 2023**

- In this system, **UNWS dataset** was taken as input from the dataset repository like UCI repository.
- We have to implement the data pre-processing step. In this step, we have to handle the missing values for avoid wrong prediction, to encode the label for input data and drop the unwanted columns from our input data.
- The machine learning classification algorithms such as MLP, KNN, random forest and ada-boost algorithms.
- The experimental results shows that the performance metrics such as accuracy , precision, recall and f1-score.
- Then it shows which Machine learning algorithm suits for this dataset which displayed using **tkinter** in python**.**

Spotify Data Analysis and Interactive Dashboard Using Tableau | LINK **June 2024 – July 2024**

- Created an interactive Tableau dashboard to visualize Spotify streaming data, highlighting trends, popular tracks, and user listening patterns.
- Analysed key metrics to support data-driven decisions in music curation and marketing, enhancing understanding of audience preferences

E-COMMERCE APPLICATION USING PYTHON(TKINTER) | LINK **Mar 2024 – April 2024**

- Developed an E-commerce application using Python (Tkinter), featuring an interactive GUI that allows users to browse and purchase items. The application dynamically calculates and displays the final purchase amount.
- Integrated UPI payment functionality by generating a UPI QR code at checkout, enabling seamless transactions through UPI apps. The project involved working with Python libraries for GUI development, QR code generation, and payment processing integration.

ATTENDANCE USING FACIAL RECOGNITION USING PYTHON | LINK **April 2023 – May 2023**

- We use Histogram Equalization it is employed technique to enhance image contrast. It redistributes pixel intensities in an image, effectively stretching the intensity range. This method can help improve facial feature visibility and enhance recognition accuracy in images with poor lighting.
- Facial recognition systems heavily rely on lighting conditions for accurate face detection and feature extraction. Poor lighting, extreme shadows, or overexposure can affect the quality of captured images or video, leading to decreased recognition accuracy.

CERTIFICATES

MICRO DEGREE [AI] | IMAGECON ,BANGALORE **April 2023**

- Mastered fundamental Python Syntax, proficiently Utilizing control flow, loops, Functions, and data Structure.
- Acquired expertise in procedural programming paradigms and associated logical concepts, enhancing capabilities
- It typically involves completing coursework and projects, covering topics like algorithms, data analysis, and model deployment.
- Studied the concepts of Artificial Intelligence, Data Science and Machine Learning Algorithms and Data Visualization using Python Libraries