

# Vinayak V Potty

Portfolio: <https://vinayakvpotty.vercel.app/>  
Github: <https://github.com/VINUVPOTTY>  
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Location: Kochi, Kerala

## SUMMARY

Detail-oriented Data Analyst with a strong background in data visualization, statistical analysis, and business intelligence. Proficient in SQL, Python, and Tableau, with experience in extracting insights from complex datasets to drive data-driven decision-making. Skilled in data cleaning, predictive modeling, and dashboard creation to enhance business efficiency. Having a great deal of experience working with cross-functional teams to translate business needs into actionable insights.

## TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, C++
- **Web Technologies:** HTML (Basic), CSS (Basic)
- **Data Visualization:** Power BI, Matplotlib, Seaborn, Excel (Charts, Pivot Tables)
- **Databases:** MySQL, Google BigQuery
- **Statistical Analysis & Machine Learning:** Pandas, NumPy, Scikit-learn, TensorFlow, Regression Analysis, Classification Analysis, Predictive Modeling
- **Deep Learning & Computer Vision:** OpenCV (cv2), MediaPipe, TensorFlow, ANN, CNNs, Image Processing, Object Detection (YOLO)
- **Generative AI & LLMs:** Gemini, Ollama, RAG (Retrieval-Augmented Generation), Stable Diffusion
- **ETL Tools:** Alteryx, SQL (Data Cleaning, Data Wrangling)
- **Version Control:** Git, GitHub
- **Business Intelligence:** DAX (Power BI), Microsoft Excel (Power Query, Power Pivot)
- **Soft Skills:** Leadership, Writing, Public Speaking, Problem-Solving, Critical Thinking, Adaptability

## EXPERIENCE

### Luminar Technolab

*Data Science Intern*

Kochi, Kerala

*Dec 2024 - Present*

- **Data Analysis and Visualization** Performed exploratory data analysis (EDA) using Python, Pandas, and NumPy to extract insights from datasets.
- **Dashboard Development** Developed interactive dashboards using Tableau and Power BI to visualize key performance metrics.
- **SQL Query Optimization** Wrote and optimized SQL queries to manage and retrieve data efficiently from MySQL databases.
- **Machine Learning Basics** Gained exposure to machine learning models for predictive analytics and decision-making.

## PROJECTS

- **Hand Gesture Drawing App – Real-Time Finger-Based Interaction :** Developed a real-time drawing application that uses webcam input and finger gestures for intuitive, touch-free interaction. Leveraging MediaPipe Hands, the app detects and tracks a single hand to interpret specific finger gestures [LINK](#)
- **Text Response Classifier – Mental Health Screening Tool:** Developed a machine learning-based Streamlit web app to classify free-text responses as *flagged* (indicative of emotional distress or mental health concerns) or not\_flagged (neutral/safe). Used TF-IDF vectorization and a Decision Tree model for real-time classification. Tools: Streamlit, Python, Scikit-learn, NLTK, Joblib, HTML/CSS [LINK](#)
- **Power BI Project – Cybersecurity Breach Analysis :** Designed and developed an interactive Power BI dashboard to analyze cybersecurity breach incidents across branches, departments, and countries. The report enables stakeholders to uncover trends, assess breach durations, and identify high-risk areas using visual insights.
- **Global Water Quality and Public Health Risk Assessment Using SQL and Python :** Analyzed a global dataset on water pollution and disease to identify regional disparities in water quality using advanced SQL queries and Python-based visualizations. [LINK](#)

## EDUCATION

- **IHRD Kollam, India** *December 2015 – December 2015*  
Post Graduation Diploma in Computer Application *Percentage:83*
- **MG University Kottayam, India** *June 2011 – June 2014*  
Bachelor of Electronics and Communication *CGPA:2.0*

## ACHIEVEMENTS

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- Excel:Working Together with Power Query and Power Pivot [LINK](#)
- Power BI Data Modeling with DAX [LINK](#)
- Hacker Rank SQL Intermediate [LINK](#)
- Career Essentials in Generative AI by Microsoft and LinkedIn [LINK](#)
- Python Basics [LINK](#)
- Generative AI [LINK](#)