

VINAYAK K V

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Professional Summary

Bachelor's degree in Computer Applications with skills in Python and SQL, and hands-on experience in Machine Learning, Data Analysis, and Data Visualization. Experienced in building predictive models, performing EDA, and deploying AI-powered applications using LLMs, RAG, Streamlit, FastAPI, Docker, and cloud platforms. Passionate about turning data into actionable insights and real-world solutions.

Experience

Data Science Intern

Cognifyz Technologies | Aug 2025 – Sep 2025

- Prepared and cleaned datasets, performing EDA to extract actionable insights.
- Built and evaluated machine learning models using Python and Scikit-learn.
- Managed tasks with JIRA and presented findings to the team.

Projects

InsightGenie – AI Data Analyzer | Python, FastAPI, React, Machine Learning

[GitHub: github.com/vinayak533/InsightGenie-Data-Analyzer](https://github.com/vinayak533/InsightGenie-Data-Analyzer)

- Built an AI-powered platform to automate Exploratory Data Analysis (EDA) and dataset health checks from raw CSV files
- Developed FastAPI APIs to detect missing values, outliers, correlations, and ML problem types
- Implemented intelligent recommendations for data preprocessing and suitable ML algorithms
- Designed an interactive React dashboard for visualizing data quality and statistical insights
- Reduced manual EDA effort by ~70% through automation

Rainfall Prediction System | Python, Streamlit, Random Forest, Docker, CI/CD

[GitHub: github.com/vinayak533/Rainfall-Prediction-App](https://github.com/vinayak533/Rainfall-Prediction-App)

- Built a machine learning application to predict rainfall using a Random Forest Classifier
- Achieved ~85% prediction accuracy on historical weather data
- Developed a Streamlit interface for real-time user input and predictions
- Containerized the application using Docker for consistent deployment
- Implemented CI/CD using GitHub Actions and deployed the application on Render

Spam Mail Detection System | Python, NLP, Scikit-learn, Streamlit

[GitHub: github.com/vinayak533/spam-mail-detection-ml-app](https://github.com/vinayak533/spam-mail-detection-ml-app)

- Developed an NLP-based web application to classify emails as Spam or Not Spam
- Applied text preprocessing and TF-IDF vectorization for feature extraction
- Trained a Multinomial Naive Bayes model achieving ~96% classification accuracy
- Deployed the application on Streamlit Cloud for interactive usage

SKILLS

Technical Skills

- **Programming:** Python, SQL
- **Machine Learning:** Regression, Classification, Clustering, SVM, Naive Bayes, Decision Trees, Random Forest, Model Evaluation
- **Deep Learning & NLP:** Neural Networks, CNN, NLP, TensorFlow, PyTorch
- **LLMs & Generative AI:** Large Language Models, Prompt Engineering, RAG, Transformers
- **Data Analysis:** Pandas, NumPy, EDA, Data Cleaning, Feature Engineering
- **Data Visualization:** Power BI, Matplotlib, Seaborn
- **Deployment & Cloud:** FastAPI, Streamlit, Docker, GitHub, CI/CD, MLflow, Cloud Deployment (Render, Hugging Face Spaces)
- **Tools:** Jupyter Notebook, Anaconda, Excel

Professional Skills

- Problem-Solving & Analytical Thinking
- Team Collaboration & Time Management
- Responsibility & Task Ownership
- Adaptability & Quick Learning

Education

- BCA, MG University | 2022 – 2025
- Higher Secondary, St. Joseph's HSS | 82% | 2020 – 2022
- High School, St. Antony's HS | 88% | 2019 – 2020

Certifications

- Complete Data Science Bootcamp — Udemy (2025)
- Machine Learning with Python — IBM Cognitive Class (2025)
- Deep Learning with TensorFlow — IBM Cognitive Class (2025)
- Data Analysis with Python – IBM Cognitive Class (2025)
- Data Visualization Empowering Business Insights — Tata Forage (2025)