VANASHREE G. HEGDE

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Summary

B.Sc. Data Science graduate with strong fundamentals in Python and machine learning, currently upskilling through an advanced professional certification in Data Science & AI from IIT Roorkee (iHub DivyaSampark) and building hands-on projects. .

Education & Certification

IIT Roorkee – iHub DivyaSampark **Aug 2025 – Present**
Advanced Professional Certificate in Data Science & AI (Ongoing) *Remote*
Maharani Cluster University **2021 – 2024**
B.Sc. in Data Science (CGPA 9.3) *Bangalore*

Technical Skills

Programming: Python, SQL
Data & ML: Pandas, NumPy, Scikit-learn, EDA, Feature Engineering
Deep Learning: CNNs, Vision Transformers (ViT), Transfer Learning
NLP,**LLMS**
Tools: Git, Jupyter Notebook, Streamlit, Tableau, MRTG, Cacti

Experience

Infynix Communication Ltd **Nov 2024 – Jul 2025**
L1 Network Engineer *Bangalore*

- Monitored enterprise network traffic using **MRTG** and **Cacti**, ensuring system availability and performance stability.
- Performed root-cause analysis on logs to resolve high-priority connectivity incidents.
- Documented operational workflows and collaborated with cross-functional teams to maintain infrastructure reliability.

Tensile Tech — Stack Zero **Jan 2024 – Jun 2024**
Data Analyst Intern *Remote*

- Cleaned and transformed raw datasets using **Python (Pandas, NumPy)** to support analytical reporting.
- Conducted exploratory data analysis (EDA) to identify customer and business trends.
- Built interactive dashboards in **Tableau** to communicate insights to non-technical stakeholders.

Technical Projects

Cancer cell Classification | *PyTorch, ViT, Explainable AI*

- Implemented a Vision Transformer (ViT) model for histopathology image classification, achieving **94.5% accuracy** on a curated dataset (80/20 train-validation split).
- Applied **Explainable AI (Attention Rollout)** to visualize model focus regions and improve interpretability.
- Used transfer learning and image patching techniques to adapt transformer-based architectures for medical imaging tasks.
- Deployed a prototype inference interface using **Gradio** and **Hugging Face Spaces**.

End-to-End CRM Ticket Classification System | *NLP, Logistic Regression, Streamlit*

- Built an NLP pipeline to classify **24,000+** customer support tickets with **89% accuracy**.
- Implemented text preprocessing and **TF-IDF vectorization** using Scikit-learn.
- Developed and deployed a Streamlit web application for real-time ticket categorization.

Fashion Image Recommendation System | *Computer Vision, VGG16*

- Designed a visual similarity-based recommendation system using **VGG16 feature extraction**.
- Generated normalized image embeddings and ranked visually similar products using **Cosine Similarity**.
- Built an interactive recommendation workflow to return top-N similar fashion items.

Languages

English (Fluent), Kannada (Native), Hindi