

VANASHREE G. HEGDE

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Summary

B.Sc. Data Science graduate with strong foundations in Python, SQL, Machine Learning, and Statistics. Currently advancing expertise in Artificial Intelligence through IIT Roorkee, with a focus on building Retrieval-Augmented Generation systems and applied AI solutions. Actively seeking opportunities to contribute to data Science and AI-focused roles.

Education

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| Maharani Cluster University <i>B.Sc. in Data Science (CGPA 9.3)</i> | 2021 – 2024 <i>Bangalore</i> |
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Certifications

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| IIT Roorkee – iHub DivyaSampark <i>Advanced Professional Certificate in Data Science & AI (Ongoing)</i> | Aug 2025 – Present <i>Remote</i> |
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Technical Skills

- Python
- SQL
- Machine Learning
- Deep Learning
- Excel
- Power BI
- Statistics
- streamlit

Technical Projects

ISP Customer Churn Analysis & Risk Segmentation Dashboard | MSSQL, Python, Power BI

- Designed and implemented a churn analytics pipeline using SQL to compute churn rate, tenure-based risk segments, and area-wise performance metrics.
- Engineered business KPIs including Churn %, High-Latency Risk Zones, and Packet Loss Impact using DAX measures with dynamic filter context for interactive analysis.
- Identified high-risk early-tenure customers and critical network regions contributing disproportionately to churn.
- Enabled data-driven retention strategy recommendations by correlating network quality metrics with churn probability across customer segments.

Cancer Cell Classification | PyTorch, ViT, Explainable AI

- Developed a classification system using the Transformer architecture , adapted for high-precision histopathology image analysis with 94.5% accuracy.
- Applied Explainable AI to visualize model focus regions, ensuring clinical interpretability and transparency.
- 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.

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.

Experience

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| Infynix Communication Ltd <i>L1 Network Engineer</i> | Nov 2024 – Jul 2025 <i>Bangalore</i> |
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* Monitored enterprise network traffic using **MRTG** and **Cacti**, ensuring performance stability.
* Performed root-cause analysis on logs to resolve high-priority connectivity incidents.

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| Tensile Tech — Stack Zero <i>Data Analyst Intern</i> | Jan 2024 – Jun 2024 <i>Remote</i> |
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* Cleaned and transformed raw datasets using **Python** to support analytical reporting.
* Built interactive dashboards in **Tableau** to communicate insights to stakeholders.

Languages

English, Kannada