



Dhanush Chandra Shekar

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Education

Indiana University Bloomington <i>M.S. in Data Science; GPA: 3.71/4.00</i> Relevant Coursework: Machine Learning, Natural Language Processing, DBMS, Applied Statistics	Aug 2024 – May 2026
Bangalore Institute of Technology <i>B.E. in Computer Science and Engineering; CGPA: 8.51/10</i>	Aug 2020 – May 2024


Technical Skills

- **Languages:** Python, SQL, Java, C++
- **ML/NLP:** LLMs (Groq, Hugging Face), Deep Learning, BERT, Transformers, Text Classification, Clustering
- **Data Engineering:** ETL, API Wrangling, Snowflake, SQL Optimization
- **Visualization:** Tableau, Power BI, Seaborn, Matplotlib, Streamlit
- **Frameworks:** TensorFlow, PyTorch, Scikit-Learn, Keras, LangChain, FAISS, Flask
- **Databases:** PostgreSQL, MySQL, Neo4j
- **Other Tools:** Git, VSCode, AWS, Jupyter

Projects

ChurnMaster: ML-Powered Retention System  <i>Python, Flask, XGBoost, CatBoost, Scikit-Learn</i> <ul style="list-style-type: none">– Designed and deployed a churn prediction app with Flask UI supporting real-time inference.– Achieved 94% F1-score using an ensemble ML pipeline (XGBoost, CatBoost, Random Forest).– Automated preprocessing, feature selection, and model tuning for reproducibility and efficiency.– Integrated Bootstrap 5 frontend with user validation, logging, and error-handling.	May 2025 – June 2025
AI-Powered Finance Q&A App  <i>Python, Streamlit, LangChain, FAISS</i> <ul style="list-style-type: none">– Built a real-time RAG-based Q&A system for financial articles with Streamlit interface.– Enhanced response accuracy by 93% using FAISS indexing and Hugging Face embeddings.– Reduced inference latency by 40% with Groq LLM integration and LangChain optimization.– Implemented fault-tolerant scraping achieving 96% article retrieval success rate.	Dec 2024 – Jan 2025
Pneumonia Detection with VGG16  <i>Python, Keras, OpenCV, Streamlit</i> <ul style="list-style-type: none">– Created an X-ray classification model using VGG16 with 95% test accuracy.– Processed 5,800+ medical images with augmentation to improve robustness.– Launched a Streamlit dashboard with Grad-CAM visualizations for clinical insight.	Oct 2022 – Dec 2022
Netflix Viewer Engagement Analytics  <i>Python, Tableau, Seaborn, Scikit-Learn</i> <ul style="list-style-type: none">– Analyzed 1.5M+ user logs to reveal viewing patterns and inform content release strategies.– Boosted recommendation system precision by 20% via feature optimization using RFE.– Cut prediction error by 15% through time-series modeling and cross-validation.	Jun 2024 – Jul 2024

Experience

Data Science Intern, EBTS  <i>Bangalore, India</i> <ul style="list-style-type: none">– Automated attendance tracking for 1,000+ users with a real-time face recognition system (95% accuracy).– Reduced manual effort by 70% using Flask-based web interface and OpenCV-KNN model.– Led a 3-member team and delivered full deployment across academic departments under strict timeline.– Designed a mobile-friendly UI and CSV-based attendance logging pipeline.	Oct 2023 – Nov 2023
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Certifications

AWS Certified AI Practitioner <i>Credential</i>	Issued: April 2024
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