

# DHANUSH CHANDRA SHEKAR

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## Education

Indiana University Bloomington

Masters in Data Science

August 2024 – May 2026

CGPA 3.71/4.0

Bangalore Institute of Technology, Bangalore

B.E in Computer Science and Engineering

August 2020 – May 2024

CGPA 8.51/10

## Technical Skills

**Languages:** Python, SQL, R

**Libraries & Frameworks:** Pandas, NumPy, Scikit-Learn, StatsModels, Seaborn, Matplotlib, TensorFlow, Keras


**Data Platforms & Tools:** Snowflake, Tableau, Power BI

**Analytics & ML Techniques:** A/B Testing, Regression, Classification, Clustering, Feature Engineering, Predictive Modeling, KPI Development, Attribution Modeling

**Data Engineering:** ETL Pipelines, Data Cleaning, Transformation, SQL Joins, Window Functions, Data Aggregation

**Statistics:** Hypothesis Testing, Time Series Analysis, ANOVA, MSE Analysis, Recursive Feature Elimination (RFE)

## Projects

Finance Article Q&A App | *Python, Streamlit, FAISS, LangChain, Hugging Face*  Dec 2024 – Jan 2025

- Built a Streamlit-based Q&A web app that lets users enter a finance article URL and ask related questions, returning answers using a **Retrieval-Augmented Generation (RAG)** system.
- Used **Groq's LLM** through **LangChain** to generate answers by pulling relevant article content with help from **FAISS** and **Hugging Face** text embeddings.
- Created a scraper using **requests** and **BeautifulSoup** to fetch and clean article text—worked successfully on selected sites like Moneycontrol.
- Handled possible issues like bad URLs, missing content, and API errors with built-in error checking and clear user messages.

Pneumonia Detection Model | *VGG16, Python, Keras*  October 2022 – December 2022

- Built a **CNN**-based image classifier using **VGG16** and transfer learning to detect pneumonia from chest X-rays with 95% accuracy.
- Preprocessed over 5,000 X-ray images by resizing, normalizing, and applying data augmentation to improve model generalization.
- Compared models like custom CNNs, **ResNet**, and **VGG16**, and selected VGG16 for its strong performance in precision and recall.
- Designed simple python visualization dashboards using streamlit with accuracy/loss plots and confusion matrix to help staff interpret results more easily.

Netflix Content Analysis | *Python, Pandas, Tableau, Seaborn, Scikit-Learn*  June 2024 – July 2024

- Performed exploratory data analysis on 1.5M+ viewer interactions to uncover engagement patterns and inform release strategies, contributing to a 35% increase in viewership.
- Improved recommendation performance by applying **Recursive Feature Elimination (RFE)**, resulting in a 20% boost in user engagement.
- Reduced model error by 15% through predictive model tuning using **Mean Squared Error (MSE)** analysis.
- Analyzed correlations among genre, release timing, and engagement metrics to guide content curation decisions.
- Developed interactive dashboards in both **Tableau** and **Seaborn** to communicate actionable insights to stakeholders.

## Experience

Enterprise Building Training Solutions (EBTS)  October 2023 – November 2023

Data Science Intern

Bangalore, India

- Built a real-time facial recognition attendance system using **Flask**, **OpenCV**, and **KNN**, reaching 95% accuracy and cutting manual work by 70%.
- Used OpenCV's **Haar cascades** for live face detection and a KNN classifier for recognizing and verifying student identities.
- Managed user data and attendance records with a file-based system and automated CSV logs for easy tracking and export.
- Created a simple and responsive web interface for users to mark attendance, making the system easy to use and deploy.

## Certifications

AWS Certified AI Practitioner [Credential]

April 2024