



# DEEKSHITH N

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## Projects

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### SGD Classifier for UN-SDGs | *Scrapy, Pandas, TF-IDF, Transformers, Seaborn*

[Github](#)

- Scraped **100+ Indian startup websites** to curate a structured dataset for SDG classification.
- Engineered a hybrid NLP pipeline (TF-IDF + LinearSVC + distillBERT), **boosting Jaccard score by 7%**.
- Visualized SDG trends and co-occurrence patterns to identify investment-ready impact startups.

### AI-Powered DevOps Auto-Remediator | *Python, LangGraph, Gemini LLM, MongoDB*

[Github](#)

- Built an AI-powered auto-remediation agent enabling intelligent **triage and classification of DevOps alerts**.
- Automated incident management workflows by integrating **Slack and PagerDuty APIs** for real-time notifications.
- Designed dynamic remediation playbooks with MongoDB storage and fallback mechanisms, reducing manual intervention.

### DocuQuery – AI Document Q&A Tool | *LangChain, Ollama, RAG, FAISS, Streamlit*

[Github](#)

- Developed a **semantic search web app** enabling users to query PDFs and documents using natural language.
- Built the pipeline with **LangChain, FAISS embeddings**, and Phi-2 LLM for efficient context retrieval.
- Integrated Flask backend with PyMuPDF, enabling **real-time, context-aware answers** and improving UX with faster retrieval and higher accuracy.
- **Reduced document upload time by chunking** content into embeddings, improving performance for large PDFs.

### Bank Management System | *SQLite, Flask, JavaScript, REST*

[Github](#)

- Designed and deployed a full-stack banking system with **role-based access** (Admin, Manager, Customer).
- Implemented secure account operations (fund transfers, deposits, withdrawals) with real-time dashboard analytics.
- Built SPA-style frontend with RESTful API architecture for seamless user interaction.

### Spotify Data Analysis & BERT Recommendations | *Python, pandas, PyTorch, HuggingFace Transformers*

[Github](#)

- Developed a comprehensive analysis system for Spotify listening history using Python and pandas.
- Implemented a **BERT-based recommendation system** for similar track suggestions using PyTorch.
- Created **interactive visualizations** of listening patterns and user behavior insights.
- Built an engagement prediction model with three-level classification (**Low, Medium, High**).
- Utilized HuggingFace Transformers for generating track embeddings and similarity matching.

## Technical Works and Certifications | *Kaggle*

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- Worked on over **20+ datasets** using statistical tools, extracting key insights and patterns.
- Developed interpretable ML projects to explain complex features, prioritizing transparency beyond predictions.
- **Data Science Professional Certificate – Coursera**
- **DBMS with SQL – Coursera**
- **NPTEL Deep Learning**

## Education

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### B.Tech in Artificial Intelligence and Machine Learning

**GPA: 8.8 / 10**

*M S Ramaiah University of Applied Sciences(2026)*

*Bengaluru*

## Languages, Skills & Interests

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- **Languages & Technologies:** Python, R, Java, SQL, Flask, Scrapy, PyTorch, Transformers, pandas, Scikit-learn, Git.
- **Skills & Interests:** Data Analysis, Communication, Problem Solving, Machine Learning, Software Development, LLMs.