

# Navaneet Kumar Ediga

AI Engineer & Data Scientist

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## PROFESSIONAL SUMMARY

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- AI Engineer & Data Scientist with nearly 3 years of experience across machine learning, deep learning, GenAI, NLP, analytics, and ETL workflows, backed by an M.S. in Data Science from the USA.
- Skilled in Python, SQL, feature engineering, statistical modeling, model evaluation, deployment, and AI/ML pipeline development.
- Delivered AI-powered solutions using RAG-style workflows, semantic search, embeddings, NLP, predictive modeling, and automation with TensorFlow, PyTorch, Hugging Face Transformers, LangChain, Google Gemini, and FAISS.
- Experienced in building AI assistants, recommendation systems, ML pipelines, dashboards, APIs, and data products using FastAPI, Streamlit, Power BI, and Tableau.
- Strong business-facing communicator with experience translating raw data, model outputs, and AI-driven insights into reports, dashboards, workflow improvements, and decision-support solutions.

## EDUCATION

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**Stevens Institute of Technology, NJ, USA**  
**Master of Science in Data Science**

**Jan 2023 – Jan 2025**

Machine Learning, Deep Learning, Data Acquisition Modeling and Analysis, Big Data Analytics, Cognitive Computing, Web Mining, Statistical Methods, Time Series

## TECHNICAL SKILLS

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<b>AI / GenAI</b>	Generative AI, LLMs, Prompt Engineering, AI Agents, RAG, LangChain, Google Gemini, FAISS, Hugging Face Transformers, Google ADK
<b>Machine Learning</b>	Linear Regression, Logistic Regression, Decision Trees, Random Forests, Naive Bayes, SVM, XGBoost, K-Means, Feature Engineering, Model Training, Model Evaluation
<b>Deep Learning</b>	ANN, CNN, RNN, LSTM, NLP, TensorFlow, Keras, PyTorch
<b>Salesforce Agentforce</b>	Agentblazer Champion – Agentforce, Einstein, Prompt Builder
<b>Packages &amp; Frameworks</b>	Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, NLTK, FastAPI, Streamlit, Jupyter Notebook, Google Colab
<b>Database, BI &amp; Tools</b>	SQL Server, MySQL, MongoDB, Power BI, Tableau, Docker, Git, Oracle Developer, WinSQL, Informatica PowerCenter
<b>Certificates &amp; Courses</b>	IBM ML Prototyping with Watson Studio, Accenture Data Analytics (Forage), PwC Power BI (Forage), AWS Cloud Practitioner course, Google x Kaggle AI Agents + Capstone

## PROFESSIONAL EXPERIENCE

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**Research Assistant – Data Science & AI**

**Jan 2023 – Dec 2024**

**Stevens Institute of Technology**

*New Jersey, USA*

- Developed an AI-powered academic assistant using NLP pipelines, retrieval-based search, FAQ knowledge-base matching, and fallback handling to answer student queries and support TA workflows.
- Built a RAG-style Q&A workflow over course FAQs and study materials using text preprocessing, semantic search, context retrieval, and response-quality tracking.
- Evaluated transformer-based NLP models and embedding techniques to improve query understanding, semantic matching, and answer relevance.
- Developed ML-based student risk prediction and recommendation workflows using Logistic Regression, XGBoost, K-Means, and content-based filtering to support early intervention and personalized study resources.

**Systems Engineer (Data Analyst)**

**Dec 2021 – Aug 2022**

**Infosys Ltd**

*Pune, India*

- Led end-to-end ETL operations for an insurance project using Informatica PowerCenter, Oracle Developer, and WinSQL.
- Automated ETL validation and reporting workflows to improve data accuracy, dashboard reliability, and BI delivery.
- Prepared interactive dashboards and visualizations using Power BI to provide stakeholders with actionable insights.
- Partnered with 24/7 production support to diagnose database and application issues, minimizing downtime and ensuring availability.
- Supported production monitoring and incident resolution to maintain reliable reporting workflows.

## TECHNICAL PROJECTS

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**ML-Based Security System for Office Premises** | Paper Published in IJAEMA | GitHub Repository

- Architected a three-tier security framework to strengthen system authentication and access control.
- Implemented a Haar Cascade Classifier for dynamic facial recognition and continuous monitoring to enhance security protocols.
- Added user-presence monitoring logic to automatically detect inactive or absent users and support safer system access controls.

**AI-Powered Educational Assistant (EduBot)** | GitHub Repository

- Created an AI assistant using Google Gemini-Pro, FAISS, and NLP to extract PDF insights, generate quizzes, and deliver intelligent Q&A.
- Launched a Streamlit UI for automated text processing, interactive learning, and seamless PDF upload workflows.
- Incorporated FAISS-based vector search to improve document retrieval, context matching, and PDF-grounded answer generation.

**Smart Agriculture Application + AgriScan(2nd Prize - Remote)** | GitHub Repository-1 | GitHub Repository-2 | Certificate

- Built a Streamlit smart-farming app that recommends Top-3 crops from soil and weather inputs and provides spray/soil correction guidance with English/Hindi and voice input.
- Implemented YOLOv8 plant disease detection with LangChain + LLaMA-3 for remedy recommendations.
- Combined crop recommendation, disease detection, and AI-generated remedies into one workflow for practical farmer decision support.