

Nithin Raj K

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EXPERIENCE

Technical Research Staff | IIT Delhi

Apr 2024 – Jun 2024

Contributed to the development of edge AI applications funded by FITT-IIT, specializing in Python GIS and web development. Optimized code to improve application performance by 20%, utilizing GUI frameworks, GIS tools, and database management systems for enhanced functionality.

MENTOR

Teaching Assistant at Nxtwave Technologies

Jan 2023 – Present

Assisted over 100 students in Python and front-end web development by thoroughly understanding their queries, providing solutions, and delivering detailed explanations.

EDUCATION

Nxtwave Disruptive Technologies

2022

Industry Ready Certification in Full-stack MERN Development

Keshav memorial institute of technology, Hyderabad

2014– 2020(lockdown included)

B. Tech (Bachelor of Technology) Electronics & Communication Engineering (ECE)

PROJECTS

Smart Resume Screener(<https://github.com/2nithin2/Smart-Resume-Screener>)

- Pre-processed and structured resume data using Python and NLTK for improved accuracy.
- Visualized insights such as category distribution and word frequency using Seaborn and WordCloud.
- Built and deployed a multi-class classification model using TF-IDF feature extraction and KNN.

Technologies Used: Python, Pandas, NumPy, Seaborn, Matplotlib, NLTK, WordCloud, scikit-learn.

Generative AI Maintenance Assistant (<https://github.com/2nithin2/Generative-AI-Powered-Maintenance-Support-Assistant>)

- Developed an AI-driven troubleshooting tool leveraging GPT-2 with Retrieval-Augmented Generation (RAG) for context-aware solutions, optimized with Redis caching and SQLite for efficient data handling. Visualized insights such as category distribution and word frequency using Seaborn and WordCloud.
- Designed an interactive Gradio-based UI for real-time user interaction, ensuring robust support with fallback solutions for common maintenance issues.

Technologies Used: Python, Pandas, NumPy, Seaborn, Matplotlib, NLTK, WordCloud, scikit-learn.

SKILLS

Frontend: HTML5, CSS5, Bootstrap, JavaScript, *React

Backend: Python, Django

Python Libraries: Pandas, NumPy, Geo-Spatial Libraries (e.g., Fiona, Shapely), PyQt5

Databases: SQLite

Tools: Anaconda, VSCode, GitHub

CERTIFICATES

Accenture Developer Virtual Experience Program ([certification](#))

Real time tasks that developers and technical consultants usually do on client projects. Good knowledge in areas such as architecture, requirements, programming, artificial intelligence, testing, cyber security, and application security.