VENKATARAJU NESHA
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SUMMARY OF QUALIFICATION

- Experience in building and deploying AI models into scalable desktop applications.
- Strong problem-solving skills with a logical and analytical approach.
- Knowledge of cloud computing and building AI systems in the cloud.

RELEVANT COURSEWORK

Deep Learning, Natural Language Processing, Cloud Computing, Software Engineering

EDUCATION

B.Tech in Computer Science and Engineering 2019-2023
AP IIIT, RGUKT RKV CGPA:8.98

TECHNICAL SKILLS

- **Languages** : Python, C++
- **Frameworks** :TensorFlow, PyTorch, FastAPI, Django
- **Tools** : AWS, Docker, Kubernates, Git, Bash
- **Platforms** : Windows, Web, Linux

RELEVANT EXPERIENCE

AI Software Engineer
Meeami Technologies *June 2023 - Present*

- Working on Accent Conversion models, exploring AI-driven techniques to enhance speech recognition and regional dialect adaptation.
- Designed a cross-platform Flutter desktop application with a License Management System, ensuring seamless access control and security.
- Built a Native Windows Desktop Application using MFC, integrating real-time noise suppression and background cancellation models for improved audio clarity.
- Secured 6th place in the 2024 Microsoft Packet Loss Concealment Challenge, enhancing audio quality in challenging network conditions.
- Developed AI-based Background Noise Suppression and Background Voice Cancellation techniques, achieving high accuracy in speech enhancement.

CERTIFICATIONS & ACTIVITIES

- AWS Certified Machine Learning Engineer Associate: Hands On!
- LLMs Mastery: Complete Guide to Transformers & Generative AI

PROJECT EXPERIENCE

- **Scalable AI-Powered Recommendation System** – Built a real-time recommendation engine using TensorFlow/PyTorch, Django, Kafka, and AWS Lambda, leveraging DynamoDB for user-item interactions and optimizing performance with batch and real-time inference.
- **Fraud Detection for E-Commerce** – Developed a fraud detection system using AWS SageMaker, FastAPI, Kafka, and DynamoDB, implementing XGBoost, LSTMs, and Graph Neural Networks for real-time and batch fraud detection in a scalable microservices architecture.
- **Chatbot with RAG & TTS** - Built a GenAI chatbot using FastAPI, LangChain, Gemini models, and Pinecone/FAISS, integrating Retrieval-Augmented Generation (RAG) for accurate responses and Text-to-Speech (TTS) for voice-based interactions.
- **AI-Powered Code Review & Bug Detection** – Engineered an automated bug detection system using CodeBERT/GraphCodeBERT, FastAPI, and Kubernetes, integrating with GitHub and AWS CodePipeline to identify issues and suggest fixes in codebases.