

AMOGH WYAWAHARE

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WORK EXPERIENCE

NBC UNIVERSAL

Orlando, FL

AI Solutions Engineer

Mar 2025 - Present

- Led development of an enterprise contract automation platform (Python, Flask), replacing legacy macro workflows and enabling dynamic generation of structured documents across thousands of configurable permutations
- Designed and deployed Generative AI-driven document workflows, leveraging LLMs and agentic architectures to interpret, generate, and update complex technical and contractual content across enterprise use cases
- Built and integrated multi-agent AI systems supporting drafting, reviewing, orchestration, compliance validation, and negotiation workflows, enabling scalable automation of end-to-end contract lifecycle processes
- Developed an internal system replicating OpenAI-style file search for local DOCX workflows, enabling secure document search, retrieval, parsing, and editing through tool-calling mechanisms within controlled environments
- Implemented advanced RAG pipelines with vector embeddings and semantic search, improving contextual grounding, reducing hallucinations, and ensuring compliance with enterprise standards across large-scale datasets
- Engineered a LiDAR-based 3D computer vision system for real-time safety monitoring, achieving >98% detection accuracy and reducing operational false positives to <1 per day in production environments
- Delivered an enterprise contract lifecycle and review platform, integrating multiple internal systems to enable centralized document access, collaboration, and AI-assisted validation workflows across distributed teams
- Led cross-functional delivery while mentoring a team of engineers, owning system architecture, stakeholder alignment, and end-to-end execution of scalable, production-grade AI solutions

POWERSOLV INC

Reston, VA

AI Software Developer

Jun 2024 – Feb 2025

- Developed an AI-powered interview assistant using a fine-tuned LLaMA-3 model, leveraging Hugging Face Transformers and PyTorch to simulate multi-turn, domain-specific interviews across industries such as tech, finance, and healthcare
- Designed and implemented a robust NLP preprocessing pipeline for 20,000+ job descriptions and interview transcripts, using spaCy, NLTK, and Azure Cognitive Services for text cleaning, and sentiment analysis, ensuring high-quality model input
- Built a real-time answer evaluation engine using TensorFlow and LangChain, incorporating semantic similarity scoring and keyword alignment to assess responses with 90% accuracy, enabling scalable AI-led interview simulations

STARKENN TECHNOLOGIES

Pune, India

Machine Learning Engineer

Feb 2022 – July 2022

- Engineered and deployed an Advanced Driver Assistance System (ADAS) for forklifts, focusing on the development of an electronic braking system. Resulted in 95% reduction in workplace incidents related to forklifts, enhancing safety in the factory
- Optimized facial recognition algorithms and gaze tracking for driver monitoring systems
- Managed extensive data collection, amassing 200 TB for AI in autonomous driving, boosting development speed and application performance in urban settings

AKER SOLUTIONS

Pune, India

Robotics Engineer

Sep 2020 – Dec 2021

- Designed electronic control system for ROV manipulators integrating real-time sensor feedback for underwater maintenance
- Initiated deep learning-based real-time crack detection in underwater structures, achieved a precision of 91%
- Devised a closed-loop ROV navigation system in a cross functional mechanical and electronics teams, enhancing movement precision through sensor data integration.

SKILLS

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|--------------------|-------------------|----------------|--------------------|
| • Machine Learning | • NLP | • Hugging Face | • Docker |
| • Deep Learning | • Computer Vision | • LangChain | • CI/CD Pipelines |
| • Generative AI | • MCP server | • Python, C++ | • Vector Databases |
| • ADAS | • PyTorch | • Flask | • Linux OS |
| • LLMs | • TensorFlow | • GitHub | |

PUBLICATIONS

- Gesture and Body Position Control for Lightweight Drones | *Springer Nature Singapore, ICEEE 2024 · Jan 31, 2025*
- Navigation of Underwater Remotely Operated Vehicle | *IEEE-ICMACC 22 · Apr 17, 2023*
- Farm Security with Fuzzy Classification-An Approach | *Grenze International Journal of E & T (GIJET) 8.1 (2022)*.

EDUCATION

University of Maryland

College Park, MD

Masters of Engineering – Robotics

May 2024

Maharashtra Institute of Technology

Pune, India

Bachelors of Technology - Electronics and Communication