AKASHDEEP GANGATKAR M

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EDUCATION

Master of Science in Artificial Intelligence — Seattle, USA
Northeastern University — [2026 - Present]

Bachelor of Engineering in Artificial Intelligence & Machine Learning — karnataka, India
Don Bosco Institute of Technology — [2020 - 2024]

SKILLS

- **Languages:** Python, MicroPython, C, C++, HTML, R, SQL, Dart.
- **Frameworks:** Scikit-learn, PyTorch, TensorFlow, Keras, Django, UiPath.
- **Tools:** Pandas, NumPy, Matplotlib, GIT, Docker, Firebase, Google Colab.
- **Development:** Full-stack development, Flutter, Rest API.
- **Embedded systems:** Arduino, Raspberry Pi, IOT.
- **Platforms:** AWS (EC2, VPC, S3, ECS), Azure Data Studio, MySQL, Android Studio, Flutter.
- **Environments:** Windows, IOS, Linux(Ubuntu, Kali, RPi OS)

PROFESSIONAL EXPERIENCE

Research Intern – CSIR National Aerospace Laboratories (NAL)
Bengaluru, India

- Conducted literature review and implemented an experimental MVP for assistive navigation, validating feasibility across multiple indoor navigation scenarios.
- Achieved real-time inference on embedded hardware under constrained compute and memory conditions.
- Evaluated system performance through iterative testing and prototype refinement.

PROJECTS

OBSTACLE DETECTION SYSTEM | 2023

- Deployed a lightweight TensorFlow Lite model (5–10 MB) for real-time obstacle detection on Raspberry Pi.
- Achieved real-time performance (10–15 FPS) during live inference on edge hardware.

WEATHER PREDICTOR | 2023

- Compared Decision Tree, Random Forest, and XGBoost models using 5-fold cross-validation.
- Evaluated models using MAE and RMSE metrics.

HOUSING PRICE PREDICTOR | 2023

- Achieved an R^2 score of ~0.80 after model optimization using GridSearchCV.
- Evaluated performance using RMSE and R^2 metrics.

SAMRAKSHAN (Disaster Rescue Directory) | 2024

- Enabled real-time SOS alerts with live location, timestamp, and weather data integration.
- Selected from multiple academic submissions for KSCST state-level exhibition.
- Designed system to support near real-time emergency response workflows.

CERTIFICATIONS

- Career Essentials in Data Analysis – Microsoft & LinkedIn (2024)
- Career Essentials in Generative AI – Microsoft & LinkedIn (2024)
- Prompt Design in Vertex AI Skill Badge – Google Cloud (2024)
- A-Z Python Programming – Juan E Galvan & Ahmed Wael (2023)
- Machine Learning Certification – Kaggle (2023)
- Project Management - Google(2025)