AKASHDEEP GANGATKAR M

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EDUCATION

Don Bosco Institute Of Technology

Bachelor's Degree in
Artificial Intelligence and Machine Learning

karnataka, India
[2020-2024]

SKILLS

- **Languages:** Python, MicroPython, C, C++, HTML, R, SQL, Dart, Bash, shell.
- **Frameworks:** Scikit-learn, PyTorch, TensorFlow, Keras, Django, UiPath.
- **Tools:** Pandas, NumPy, Matplotlib, GIT, Docker, Firebase, Google Colab, Jenkins.
- **Development:** Full-stack, Flutter, Rest API, Microservices, Automation frameworks.
- **Embedded systems:** Arduino, Raspberry Pi, IOT, x86/x64 Architecture.
- **Platforms:** AWS (EC2, VPC, S3, ECS), Azure Data Studio, MySQL, Android Studio, Flutter.
- **Environments:** Windows, IOS, Unix/Linux(Ubuntu, Kali, RPi OS)

PROFESSIONAL EXPERIENCE

Intern |CSIR-National Aerospace Laboratories | LINK
Bengaluru

- Interned in a secure defense research institution, working under protocol-driven access and operational constraints.
- Studied a provided research paper and developed a working MVP of an assistive navigation system for visually impaired users.
- Implemented the prototype externally based on the research findings.

PROJECTS

SAMRAKSHAN (Disaster Rescue Directory) | 2024 | LINK

- Developed a full-stack Flutter application integrated with Firebase and real-time weather APIs. The app enables users to trigger SOS alerts that transmit live location, timestamp, and contact details to nearby rescue agencies.
- 🏆 Selected and exhibited at the Karnataka State Council for Science and Technology (KSCST) state-level exhibition.

WEATHER PREDICTOR | 2023 | LINK

- Built a GUI-based weather forecasting tool using Tkinter and machine learning models like Decision Tree, Random Forest, and XGBoost. Implemented cross-validation and error analysis to optimize prediction accuracy.

HOUSING PRICE PREDICTOR | 2023 | LINK

- Created a web-based application using Streamlit to predict housing prices based on location, area, and features. Applied regression techniques and GridSearchCV for model optimization and performance tuning.

OBSTACLE DETECTION SYSTEM | 2023

- Designed a real-time obstacle detection system for visually impaired users using Raspberry Pi and Arduino. Leveraged TinyML and TensorFlow Lite to run lightweight models for visual input processing and auditory feedback on edge devices.

CERTIFICATIONS

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