MISHA N DEVEGOWDA

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SUMMARY

Motivated Computer Science undergraduate with a **major in Data Science**, specializing in **Artificial Intelligence and Machine Learning**. Experienced in **applied AI projects**, including a Flask-based AI research assistant and a Sign Language Classifier using SVM. Proficient in Python, C/C++, and machine learning libraries (scikit-learn, NumPy), with working knowledge of AWS, and DevOps.

EDUCATION

- **10th** — **2009 - February 2021**
  Baldwin Girls High School
- **11TH & 12 - PCMB in ISC** — **Sep 2021- February 2023**
  Cluny Convent High School
- **Bachelor of Technology in Computer science and Engineering with a Major in Datascience and Minor in UI/UX design (Pursuing-5th semester)** — **Oct 2023 - Jun 2027**
  RV University

TECHNICAL SKILLS

- **PROGRAMMING LANGUAGES**: PYTHON, JAVA, C, C++
- **DATABASES**: SQL, SQLITE, MONGODB
- **OPERATING SYSTEMS**: MICROKERNEL SYSTEMS, OS CONCEPTS, LINUX
- **SOFTWARE DEVELOPMENT**: AGILE SOFTWARE ENGINEERING AND DEVOPS
- **VERSION CONTROL & TOOLS**: WORKED WITH GIT, GITHUB, DOCKER

INTERNSHIPS & CERTIFICATIONS

- **WINTER TRAINING & INTERNSHIP – PYTHON PROGRAMMING (TECHKRITI, IIT KANPUR)** *DECEMBER 2024 - JANUARY 2025*
- **INTERN AT CLOUDREIGN TECHNOLOGIES** *JUNE 2025- AUGUST 2025*
- **GOOGLE GEMINI STUDENT AMBASSADOR AUGUST** *2025-PRESENT*
- **NPTEL PROGRAMMING IN MODERN C++ CERTIFICATION**

AWARDS AND PROJECTS

SAGEY – AI-POWERED RESEARCH ASSISTANT

- TECHNOLOGIES: PYTHON, FLASK, WEB SCRAPING, REST APIS, BOOTSTRAP
- TOOLS: ARXIV API, SERPAPI, BEAUTIFULSOUP, HTML/CSS
- DEVELOPED A **FLASK-BASED AI RESEARCH ASSISTANT THAT AUTOMATES ACADEMIC AND MEDIA CONTENT AGGREGATION ACROSS MULTIPLE SOURCES.**
- INTEGRATED **APIS FROM ARXIV, YOUTUBE (VIA SERPAPI), AND GOOGLE NEWS** TO FETCH SCHOLARLY PAPERS, TECHNICAL VIDEOS, AND RECENT NEWS ARTICLES.
- IMPLEMENTED INTELLIGENT FILTERING AND CLASSIFICATION OF CONTENT USING KEYWORD MATCHING AND CONTEXT-BASED SEGMENTATION.
- SUPPORTS RESEARCHERS BY **STREAMLINING THE LITERATURE REVIEW PHASE**—SAVING TIME AND REDUCING THE NEED FOR SCATTERED SEARCHES ACROSS PLATFORMS.

KAIZEN – IOT-BASED OIL SPILL CLEANING ROBOT (IDEATHON 2.0 WINNER)

- TECHNOLOGIES: IOT, EMBEDDED SYSTEMS, WIRELESS COMMUNICATION
- TOOLS: ARDUINO, MESH NETWORKING, SENSORS
- CO-DEVELOPED AN INDUSTRIAL OIL SPILL CLEANING ROBOT EQUIPPED WITH MESH-NETWORK COMMUNICATION FOR AUTONOMOUS NAVIGATION AND MANAGER ALERTING.
- DESIGNED FOR HAZARDOUS FACTORY ENVIRONMENTS WITH REAL-TIME SPILL DETECTION AND CLEANUP CAPABILITIES.
- **WON 1ST PLACE AMONG 50+ TEAMS AT IDEATHON 2.0 FOR INNOVATION, FEASIBILITY, AND ENVIRONMENTAL IMPACT.**

SIGN LANGUAGE & GESTURE RECOGNITION USING SVM

- TECHNOLOGIES: PYTHON, OPENCV, MEDIAPIPE, SCIKIT-LEARN
- TOOLS: JUPYTER NOTEBOOK, WEBCAM
- *DEVELOPED A **REAL-TIME SIGN LANGUAGE RECOGNITION SYSTEM** FOR INDIAN SIGN LANGUAGE (ISL) USING SUPPORT VECTOR MACHINES (SVM).*
- IMPLEMENTED HAND LANDMARK EXTRACTION USING **MEDIAPIPE** AND PROCESSED OVER 100K+ CUSTOM GESTURE IMAGES.
- ACHIEVED **89.12% ACCURACY** FOR DYNAMIC AND STATIC SIGNS, INCLUDING ALPHABETS, DIGITS, AND PHRASES LIKE "THANK YOU", "YES", "NO".
- OPTIMIZED FOR LOW-RESOURCE SYSTEMS WITH WEBCAM-BASED PREDICTION AND LIGHTWEIGHT ARCHITECTURE

SMART IRRIGATION SYSTEM USING MULTIPLE LANS (CISCO PACKET TRACER)

- TECHNOLOGIES: COMPUTER NETWORKS, DHCP, STATIC ROUTING, IOT
- TOOLS: CISCO PACKET TRACER
- SIMULATED A **SCALABLE, ZONE-BASED IRRIGATION SYSTEM** USING MULTIPLE WIRED AND WIRELESS LANS.
- CONFIGURED SENSOR-VALVE-CONTROLLER NODES IN EACH LAN WITH **IP ADDRESSING, DHCP, AND ROUTING PROTOCOLS.**
- INTEGRATED WIRELESS IOT DEVICES (E.G., SMART SPRINKLERS, WATER LEVEL MONITORS) USING SSID-BASED ACCESS.
- DEMONSTRATED **REAL-TIME CENTRALIZED CONTROL, CROSS-ZONE COMMUNICATION, AND HYBRID NETWORK TOPOLOGY FOR SMART AGRICULTURE.**