

PRAJWAL B R

Bangalore, India

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OBJECTIVE

Aspiring to pursue an MS in Computer Science with a strong industry focus on Artificial Intelligence and DataScience, aiming to build advanced expertise in machine learning, predictive analytics, and intelligent automation. Alongside this core specialization, the aim is to leverage experience in Android Automotive OS, connectivity systems, and system-level software engineering to contribute to data-driven, high-reliability solutions in the automotive and connected systems industry.

EDUCATION

B.Tech, Computer Science and Engineering
REVA University, Bangalore

Jul 2020 – Aug 2024
CGPA: 8.7/10

ACADEMIC PROJECTS

1. Connectivity Simulation and Test Automation [RNTBCI, Bangalore]

July – Oct 2025

Team Size: 5

Role: Developer

Developed an end-to-end harness to sequence radio ON/OFF/UNAVAILABLE states, registration transitions, APN/PDP setup, and IP handoff on Android Automotive OS. Automated verification of link properties such as IP configuration, DNS, and gateway, and validated clean teardown to support robust connectivity regression testing across multiple scenarios.

2. LogAnalyzer AI for Connectivity Triage [RNTBCI, Bangalore]

Jan – Apr 2025

Team Size: 3

Role: Developer

Implemented a Python-based analysis pipeline that parses connectivity logs, groups failure signatures, and surfaces probable root causes using embeddings-based retrieval. Designed to integrate with CI pipelines for post-build triage, accelerating log analysis, improving knowledge reuse, and reducing time to identify connectivity issues.

3. AI-Assisted Communication for Autism Support (AutoLearn) [REVA University, Bangalore]

Jun – Aug 2024

Team Size: 4

Role: Python Developer

Built an NLP pipeline that converts child speech expressions into coherent sentences using classical machine learning and natural language processing techniques in Python. Demonstrated potential to support communication for children on the autism spectrum. Project outcomes were published in the International Journal of Research and Analytical Reviews.

4. Real-time Image Labeling System [REVA University, Bangalore]

Feb– May 2023

Team Size: 3

Role: Python Developer

Designed a computer vision solution for real-time image classification on incoming image streams. Utilized convolutional neural network architectures and optimized pre-processing workflows to achieve fast inference suitable for practical deployments.

5. IoT-based Smart Classroom [REVA University, Bangalore]

Jul – Sep 2022

Team Size: 4

Role: Developer

Developed an IoT-enabled classroom setup integrating RFID-based attendance with adaptive lighting to improve energy efficiency. Implemented hardware-software integration to automate attendance capture and dynamic control of power consumption in classroom environments.

WORK EXPERIENCE

Engineer, Renault Nissan Technology & Business Centre India (RNTBCI), Bangalore

July 2024 – Present

- Designed and implemented Python-based connectivity simulation automation orchestrating radio state changes, registration transitions, APN/PDP bring-up and teardown, and IP configuration injection to validate setupDataCall behavior and NetworkAgent lifecycle.
- Extended HAL interfaces with safe simulation hooks for interface up/down, CID/APN status, and DNS/gateway propagation, strengthening edge-case handling and enabling repeatable test scenarios.
- Added structured correlation logs across serials, CIDs, and responses to improve observability and traceability during complex connectivity state transitions.

INTERNSHIPS

Connectivity Intern, Renault Nissan Technology & Business Centre India (RNTBCI), Bangalore Jan- July 2024

- Worked in the Connected Experience department on Android Automotive OS and Connected Car Solutions, gaining hands-on experience with connectivity and telephony frameworks.
- Added observability points for key connectivity state transitions and built validation utilities for Android Automotive use cases, laying the foundation for subsequent full-time contributions.

TECHNICAL SKILLS

- **Programming Languages:** Python (4 yrs), Java/Kotlin (2 yrs), C/C++ (2 yrs), Rust (2 yrs), and SQL (2 yrs).
- **Platforms/Frameworks:** Android Automotive OS, Connectivity and Telephony Stack, HAL/AIDL, and System Services.
- **Tools:** AOSP/Soong, Git, GitLab CI, adb, scrcpy, Wireshark, tcpdump, repo, Ninja, and Linux.
- **ML & Data:** TensorFlow, PyTorch, scikit-learn, Pandas, NumPy, and NLTK.
- **Web Technologies:** HTML, CSS, JavaScript, and React.js.
- **Soft Skills:** Problem-solving, critical thinking, teamwork, and communication.

CERTIFICATIONS / WORKSHOPS / ADDITIONAL COURSES

Interfacing with the Arduino, University of California, Irvine	Apr 2022
Convolutional Neural Networks in TensorFlow, DeepLearning AI	Apr 2022
Convolutional Neural Networks, DeepLearning AI	Mar 2022
Google IT Support Professional Certification (System Administration & IT Infrastructure Services, Operating Systems and You: Becoming a Power User, The Bits and Bytes of Computer Network-ing, Technical Support Fundamentals), Google	Feb 2022
Introduction to TensorFlow for AI, DeepLearning AI	Jan 2022
Introduction to HTML5, University of Michigan	Jan 2022
Design Thinking for Innovation, University of Virginia	Jul 2021
Python Basics, University of Michigan	Jun 2021
Python for Data Science and AI, IBM	Jun 2021
Everyday Excel, University of Colorado Boulder	Apr 2021

RESEARCH / PUBLICATIONS

AutoLearn: AI-Assisted Communication for Autism Support, international journal of research and analytical reviews.

Jul 2024

ACHIEVEMENTS / CO-CURRICULAR / EXTRACURRICULAR

Participated in multiple hackathons, including IoT-based smart classroom automation and drone-based garbage dump site detection using CNN and MobileNet.

Mar 2021– Jul 2022

LEADERSHIP ROLES

Project Lead – AutoLearn (AI/NLP Project):

Jun - Aug 2024

Led a cross-functional team to design and deliver an AI-driven assistive solution using NLP and ML techniques, coordinating end-to-end development, model evaluation, and research publication outcomes.

Project Lead – AI Log Analyzer:

Jan - Apr 2025

Drove the development of an AI-based log analysis system to improve debugging efficiency and system reliability, owning architecture decisions, model integration, and delivery timelines.

COMMUNITY INVOLVEMENTS

Volunteer – Rotary Club:

Jan 2022 - Jun 2023

Actively contributed to year-round community initiatives, supporting the planning and execution of social outreach programs and events focused on education, public welfare, and community development.