

# BORIMALLA DARSHAN KUMAR

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## Profile

Driven Computer Science undergraduate at Amrita Vishwa Vidyapeetham with expertise in machine learning, full-stack development and cloud technologies. Proficient in Python, React, SQL and Google Cloud Platform, with a proven track record of building scalable solutions. Passionate about innovation and collaborative problem-solving.

## Experience

### Software Development Internship

May 2025 – Jun 2025

Bluestock

India

Developed a full-stack web application for stock trading and IPO management using React, Tailwind CSS, Node.js and MongoDB. Designed UI/UX and implemented server-side logic for features like stock trading, portfolio tracking and IPO handling.

## Education

### B.Tech in Computer Science and Engineering

2022 – 2026

Amrita Vishwa Vidyapeetham

CGPA: 7.61/10.0

### Intermediate Education

2019 – 2021

Sri Chaitanya Junior College

Percentage: 98%

### Secondary School Certificate (10th Standard)

2019

St. Francis de Sales High School

GPA: 10.0/10.0

## Projects

### Firefox Custom Adblocker

Ongoing

Developed a browser extension using JavaScript and the WebExtensions API for custom ad blocking on Firefox. Contributing to open-source development on GitHub to enhance privacy and browsing experience.

### AI-Enhanced Cloud-Based Forest Monitoring

Apr 2025 – Jun 2025

Built a forest monitoring system using Google Earth Engine, Vertex AI, and BigQuery, enabling real-time deforestation alerts via anomaly detection with sub-minute latency.

### Interpretable Malware Detection Using Self-Attention CNN

Feb 2024 – Jul 2025

Implemented a self-attention-augmented 1D CNN using TensorFlow and Keras with NLP-inspired embeddings, achieving 92% accuracy in Android malware detection by modeling long-range opcode dependencies.

### Behavior-Aware Influence Maximization on Instagram

Feb 2024 – Jul 2025

Developed an influence maximization system using Python, NetworkX, and Genetic Algorithms on a 70K-user dataset, incorporating behavioral metrics to outperform traditional graph-based models in engagement.

### Live Cricket Score Management

Mar 2025 – Jun 2025

Created a real-time cricket score dashboard using React.js, Tailwind CSS, Axios, and the Cricket Live API with auto-refreshing scores, player stats, and responsive UI for web and mobile.

### Crop Price Prediction

Oct 2024 – Dec 2024

Built ML models using Python, Pandas, and Scikit-learn (Linear Regression, Random Forest) to forecast regional crop prices using weather, soil, and market data, aiding farmers in price decisions.

### Personal Expense Tracker

Nov 2023 – Mar 2024

Developed a Java-based desktop application following OOP principles for tracking user expenses, improving budgeting accuracy by 25% through automated logging and reporting.

Technical Skills

**Languages:** C, C++, Python, Java, JavaScript  
**Web Development:** HTML, CSS, React, Node.js, Tailwind CSS  
**Databases:** SQL, MongoDB  
**Cloud Platforms:** Google Cloud Platform, Netlify, Railway  
**Core Concepts:** Data Structures, Algorithms, Object-Oriented Programming  
**Tools & Technologies:** Linux, Git, TensorFlow, Keras, Scikit-learn, Pandas, NumPy, AutoCAD

Areas of Interest

Machine Learning, Full-Stack Development, Cybersecurity

Publications

**Interpretable Malware Detection Using a Self-Attention Augmented 1D CNN** 2025  
Proposed an explainable deep learning model combining CNN and self-attention mechanisms for Android malware detection. Accepted at ICCCNT 2025, IIT Indore (Paper ID 1385).

Community Outreach

**Cybersecurity Awareness Program** Sep 2024 – Oct 2024  
Conducted an interactive cybersecurity seminar for 9th-grade students at a government school in Kollam, promoting online safety and responsible digital behavior.

Extracurricular Activities

**School Pupil Leader** 2018  
Led school-level events and acted as liaison between students and staff at St. Francis de Sales High School, Khammam.

Additional Information

**Hobbies:** Technology news, cybersecurity experiments, badminton  
**Languages:** English (Fluent), Telugu (Fluent), Hindi (Proficient)