SANJAY HARI RAGHAVA

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EDUCATION

Reva University | **2021 - 2025**
Bachelor of Technology in Computer Science Engineering (CGPA: 9.35) | *Bengaluru, India*

EXPERIENCE

TIFR Bengaluru | **May 2023 – Aug 2023**
Machine Learning Intern | *Bengaluru, India*
- Developed a convolutional neural network (CNN) model to accurately detect coconut diseases from leaf images, improving classification accuracy by 25%.
- Preprocessed large datasets of coconut leaf samples using image augmentation and normalization techniques, ensuring robust model performance.
- Integrated the model into an autonomous drone system for real-time disease detection, reducing manual inspection efforts by 60%.

KrewsUp Technologies | **January 2024 – May 2024**
Data Analyst Intern | *Remote*
- Designed and implemented data pipelines to track user activity on the mobile app, providing actionable insights that improved user engagement by 30%.
- Automated event and manpower matching algorithms, optimizing real-time data handling and reducing manual intervention by 40%.
- Built dashboards for event organizers using Tableau, improving decision-making with real-time analytics.

ACHIEVEMENTS

- Winner of the First Prize (₹50k) at Presidency University Hackathon for building a bomb-defusing military bot.
- First Place in Smart Agro Hackathon, winning ₹10k for coconut disease detection using AI.
- Top 10 finalist at NIT Surathkal Hackverse among 1000 participants.
- Shortlisted in the top 15 for Kavach 2023 Hackathon.
- Shortlisted for the Codefury 6.0 Hackathon.

PROJECTS

DRIVE: Digital Reality Immersive Vehicle Experience / *Flutter, ARCore, ARKit, Firebase, RESTful APIs* 🐙
- Engineered a cross-platform AR Car Viewer using Flutter, integrating ARCore and ARKit for immersive 3D rendering.
- Implemented Firebase for efficient data management, enabling offline viewing and reducing load times.
- Developed a custom gesture recognition system for intuitive AR interactions and real-time car customization.
- Integrated RESTful APIs to fetch and display real-time vehicle data within the AR interface.

SkyShare / *Flutter, Node.js, Express.js, MongoDB, Firebase Cloud Messaging, JWT* 🐙
- Developed a Flutter-based mobile application enabling real-time luggage space sharing and matching algorithms for flight passengers.
- Implemented RESTful APIs using Node.js and Express.js to handle user matching, booking management, and payment processing.
- Designed a NoSQL database schema in MongoDB to efficiently store flight details, user profiles, and sharing transactions and integrated JWT.

HealthZ | *React, Node.js, Express.js, MongoDB, Machine Learning (TensorFlow)* 🐙
- Developed a responsive web platform integrating ML models for accurate disease prediction based on user symptoms.
- Engineered a multi-modal treatment recommendation system covering Ayurvedic, Allopathic, and Homeopathic medicines.
- Implemented RESTful APIs using Node.js and Express.js to handle user health data and personalized medicine suggestions.

TECHNICAL SKILLS

- **Languages**: Java, Python , JavaScript, SQL, Tableau, Excel, HTML, CSS.
- **Technologies/Frameworks**: React, Node.js, Express.