Bhavashesh Dachapalli

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PROFESSIONAL SUMMARY

AI/ML Engineer & Full-Stack Developer with experience deploying 4+ smart applications in IoT, edtech, and agritech. Skilled in FastAPI, React, and TensorFlow, with 30%+ gains in model accuracy and platforms used by 100+ users. Strong in DevOps, scalable APIs, and cross-functional teamwork.

EDUCATION

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY , CHENNAI

B.Tech
Computer Science and Engineering
Expected: May. 2027 | Chennai, India
Cum. GPA: **9.48 / 10.0**

EXCELLENCIA JUNIOR COLLEGE

Grad. April 2023 | Hyderabad, Telangana, India

Class XII : **91.1%**

DELHI PUBLIC SCHOOL

Matriculation: May 2021 | Hyderabad, Telangana, India

Class X : **89%**

SKILLS

Programming Languages

• C • C++ • Java • Python • JavaScript

Machine Learning & AI

• TensorFlow • Keras • Scikit-learn
• OpenCV • Pandas • NumPy
• NLP • Matplotlib

Frontend Development

• React.js • Tailwind CSS • HTML5
• CSS3 • JavaScript • Figma

Backend Development

• FastAPI • Node.js • Flask • Firebase
• RESTful APIs • SQL • MongoDB
• MySQL

DevOps & Deployment

• Docker • Git • GitHub Actions
• Vercel • Uvicorn • CI/CD

Embedded Systems & IoT

• Arduino • ESP32 • IoT Sensors

Blockchain

• Solidity • Ethereum • Truffle
• Ganache

LEADERSHIP & EXPERIENCE

IEEE Society, SRM Institute – Web Development Member

♀ Chennai, Oct' 2024 - Present

• Designed and maintained responsive web portals used across university departments.

The Directorate of Student Affairs (DSA): Committee Member

♀ Chennai, Aug' 2023 - Sep' Present

• Organized 10+ events for 1000+ students including hackathons, workshops, and festivals.

Aaruush, SRM University

♀ Chennai, Aug' 2023 - Oct'24

• Led execution of national-level tech fest with 2000+ participants.

PROJECTS

AGRISYNC | Smart Farming Platform with AI & Ethereum

Tech: FastAPI, React, TensorFlow, Ethereum

- Trained a CNN (TensorFlow) on 1,500+ crop images, reducing spoilage by 89%.
- Developed a real-time React-FastAPI marketplace with dynamic price forecasting.
- Integrated Ethereum for tamper-proof transaction logs.

Project OnboardX | Vehicle Anomaly Detection & Alert System

Tech: ESP32, Sensors, Raspberry Pi, FastAPI, React, Firebase

- Built an engine anomaly detection pipeline (ESP32, Raspberry Pi) with 94% precision.
- Implemented an emergency alert system via Firebase + SMS API for real-time warnings

BluePulse | IoT-Based Water Conservation System

Tech: IoT, React, ML, FastAPI

- Deployed ML model (FastAPI, React) to analyze household water use; cut waste by 22%.
- Designed real-time dashboard with actionable insights; tested in 15 homes.

QuestEd | Personalized Learning Platform

Tech: FastAPI, Gemini API, React, Firebase

- Built a recommendation engine (FastAPI, Gemini API, React) to boost quiz scores by 27% for 130+ users.
- Enabled emotion-aware content delivery through multimodal AI integration.

COURSEWORK

UNDERGRADUATE

Probability & Statistics
Object Oriented Design Principles
Operating Systems
Database Management Systems
Programming for Problem Solving
Data Structures and Algorithms

AWARDS

REDBULL BASEMENT

1st Postion - Winner

• Built Vibeout, an AI-based fitness assistant for real-time, personalized workout feedback.

TEM-E-THON'25

Top 10 Finalist (24/300+ teams)

• Developed BluePulse in Temenos' 24-hour hackathon, focused on IoT-driven water conservation.

ENDURAVERSE' 25 HACKATHON

3rd Position (Top 6 Nationally)

• Built Project OnBoardX in Temenos' 3-day hackathon; recognized for innovation in vehicle monitoring.

SMART INDIA HACKATHON

• Selected among top national teams for Smart India Hackathon

Smart-AgriCulture | IoT-Based Precision Agriculture

Tech: ESP32, Firebase, FastAPI, React, Machine Learning

- Delivered 25–30% improvement in crop health prediction using environmental data (ESP32, Firebase, ML).
- Enabled real-time SMS alerts and dashboard monitoring for farmers.

Vibeout | Emotion-Based Workout Assistant (Red Bull Winner)

Tech: React, Tailwind CSS, Google API, FastAPI, Node.js.

- *Developed a real-time facial emotion recognition system (React, FastAPI, Node.js) to personalize workouts.*
- Achieved 93% satisfaction rate across pilot users; used Tailwind CSS + Google API for UX.

CERTIFICATIONS

- Complete Python Developer in 2023: Zero To Mastery
- Python 101 for Data Science (IBM) – Nov 2023
- Programming in Java (NPTEL) – Nov 2024
- IoT Wireless & Cloud Computing - Feb 2025
- Database Systems (NPTEL) – April 2025
- Supervised Machine Learning – Feb 2025
- GitHub Foundations - May 2025