

# ABINANDIDA R

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 [abinandidaportfolio.netlify.app](http://abinandidaportfolio.netlify.app)

## Summary

Driven AI and Data Science student skilled in building ML models, NLP pipelines, RAG systems, and fast functional prototypes, noted as an SIH 2025 Winner for solving real problems with clear, effective engineering and strong collaboration in technical projects.

## Education

**Anna University Regional Campus, Coimbatore**  
*B.Tech in Artificial Intelligence and Data Science*

**2022 – Present**  
*CGPA: 7.8/10*

**Sethu Irani Matric Hr. Sec. School, Sivaganga**  
*12th — PCM*

**2022**  
*94.17%*

## Technical Skills

**Programming:** Python, JavaScript, SQL, Bash

**ML/AI:** Machine Learning, NLP, RAG, Time-Series Forecasting, Deep Learning

**Frameworks:** FastAPI, TensorFlow, PyTorch, Scikit-learn, Next.js

**Tools:** Git, Linux, Firebase, Tableau, Power BI, Jupyter, Excel

## Projects

**GerontoVoice – Voice-First AI Simulator for Elderly Care Training**

**2025**

*React, FastAPI, Mistral, RAG, LoRA*

- Built AI personas using RAG + LoRA to simulate elderly communication, generating 800+ diverse dialogues.
- Designed scalable backend supporting custom memory, context control, and persona adaptation.
- Demonstrated practical use of LLMs for high-impact training in healthcare communication.

**AI-Powered Geospatial Crisis Monitoring Dashboard**

**2025**

*Next.js 14, Mapbox, NLP, ML Forecasting*

- Built full-stack dashboard with geospatial alerts, NLP classification, and real-time filtering.
- Developed forecasting model achieving 85% accuracy for hospital bed demand.
- Improved crisis situational awareness through interactive map-based visual analytics.

**HealMate AI – Empathetic Health Assistant**

**2024**

*FastAPI, NLP, REST APIs*

- Developed NLP-based assistant for structured health information and empathetic responses.
- Enhanced user engagement by 30% using improved prompts and API-driven dialogue logic.

## Internships

**Data Science Job Simulation — British Airways (Forage)**

**Jul 2025**

*Remote*

- Built sentiment analysis model improving insights accuracy by 15%.
- Prepared visual recommendations for better customer experience reporting.

**Analytics Job Simulation — Deloitte Australia (Forage)**

**Jun 2025**

*Remote*

- Designed dashboards to identify anomalies and financial risk patterns.
- Created data validation logic improving detection of inconsistencies.

## Machine Learning Intern — Infosys Springboard

Nov 2024 – Jan 2025

*Remote*

- Developed time-series pipeline achieving 88% forecasting accuracy for stock trends.
- Led 25+ interns in task coordination and Linux troubleshooting, improving team efficiency.

## Data Science Intern — Intrnforte

Sep 2024 – Nov 2024

*Remote*

- Built reusable feature processing pipeline reducing preprocessing time by 30%.
- Improved ML model accuracy through algorithm comparison and tuning.

## Web Developer Intern — AURCC

Aug 2024 – Sep 2024

*Coimbatore*

- Developed high-performance website pages using Vue.js and Tailwind CSS.
- Implemented structured JSON workflows enabling easy content management.

## Achievements & Hackathons

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- Smart India Hackathon 2025 Winner
- AsterHacks 2025 — Asters Achievement Award
- EY Techathon 6.0 — Round 2 Shortlisted
- Unstop Talent Park 2025 — Round 2 Achieved

## Certifications

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- Neural Networks and Deep Learning — DeepLearning.AI (Sep 2025)
- Professional Data Science — IBM (Mar 2025)
- AI, Data Science & Generative AI — Infosys Springboard (Aug 2024)
- AI/ML for Geodata — IIRS (Oct 2024)
- Journey to Cloud — IBM (Sep 2024)
- Data Science — Intrnforte (Nov 2024)

## Languages

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English (Fluent), Tamil (Native)

## Extra-Curricular

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- DGATE Cell Member — Digital automation initiatives
- Captain — College Chess Team
- Athlete — Short Sprint Events