BALAGURU G

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CAREER OBJECTIVE

To secure a position in the field of Artificial Intelligence and Machine Learning where I can apply my knowledge of data science, algorithm development, and model training to solve real-world problems, while enhancing my skills through continuous learning and impactful projects.

EDUCATION

B. Tech Artificial Intelligence and Data Science   2022 – 2026
PSNA College of Engineering and Technology, Dindigul.   *CGPA: 7.91*

HSC   2021 – 2022
Thaai Matric. Hr. Sec. School, Alanganallur.   *Percentage: 87.3%*

SSLC   2019 – 2020
Thaai Matric Hr. Sec. School, Alanganallur.   *Percentage: 99%*

SKILLS

Programming Languages: Java, Python

Web Development: HTML, CSS, Javascript

Proficient in: Data Structures, AI, NLP

Database: SQL, MongoDB

Soft Skills: Good Communication, Problem Solving

Analytics: Numpy, Power BI, R

IDE: VS Code, PyCharm

PROJECTS

Vehicle Smoke Emission Detection:
Developed an AIoT based system to detect excessive smoke emissions from vehicles in real-time, helping to monitor pollution and support environmental protection efforts.

iTech Hackfest - Student Guidance App:
Designed a concept for an education guidance app providing course recommendations, study materials, and mentorship connections.

EDII Hackathon – Movement of Humans in Smoke Detection:
Worked on AI-based human movement detection in smoke-filled environments for emergency response solutions.

Theerkathon - AI-Powered Radiant Cooling System:
Developed an eco-friendly cooling system that efficiently circulates water through embedded building pipes.The solution significantly reduces energy consumption and promotes sustainable temperature regulation.

Fake News Detection Web Application:
Built a web application to identify and flag potentially fake news articles based on keyword pattern matching and rule-based logic. Designed a clean user interface for user input and stored detection results in MongoDB for further analysis. Entire project was developed and deployed using VS Code.

CONFERENCE PRESENTATION

**Technical Paper Presentation at 15th International Conference on Science & Innovative Engineering –
2025(26 & 27 April, 2025)**
   Title: AI-Powered Solar Radiant Cooling: Smart, Sustainable Climate Control with PEX Piping.
   Conference: 15th International Conference on Science & Innovative Engineering 2025.
   Organized by: Prince Dr. K. Vasudevan College of Engineering & Technology, Chennai, in association with
Manipal University College, Malaysia.
   Description: Presented a research paper on the development of an AI-powered, solar-enhanced radiant cooling
system utilizing PEX piping and ACP insulation for sustainable climate control solutions.

CERTIFICATIONS

HTML Certification(Aug 5, 2024)
   Learned the fundamentals of HTML and CSS, including creating web pages, using proper structure, and styling
for a better user experience.

Cloud Security Fundamentals – Palo Alto Networks Academy(Feb 6, 2025)
   Gained foundational knowledge of cloud security principles, including threat identification, secure architecture,
and risk management.

Data Visualization with Power BI(Aug, 2024)
   Learned the basics of **Power BI**, including data visualization, report creation, and building simple interactive
dashboards.

Google Generative AI Completion Badge(Nov 22, 2024)
   Completed Basics of Generative AI by Google, gaining fundamental knowledge in AI concepts and applications.

HackerRank – Problem Solving Certification(July, 2025)
   Completed the HackerRank skill certification in problem solving (basic).

ACHIEVEMENTS

Winner – Theerkathon 2024 (StartupTN- September 2024)
   Developed an AI-powered radiant cooling system integrating solar energy and sustainable PEX-based water
circulation. The solution was recognized for its innovative approach to eco-friendly, cost-effective indoor climate
regulation—selected as the winning idea among top finalists for its potential real-world impact.

CodeChef Problem Solver Bronze Badge (July 2025)
   Solved 50+ coding problems on CodeChef and earned the Problem Solver Bronze Badge.

INTERNSHIPS

TechOctanet Services Pvt Limited- Python Programming(Nov 1, 2024 - Dec 1, 2024)
   Completed a 1 month Python Development Internship at TechOctanet Services Pvt Ltd, gaining hands-on
experience in coding, debugging, and real-world applications.

CodeAlpha- Data Science(Feb 2, 2025 - Feb 28, 2025)
   Completed a Data Science Internship at Code Alpha, developing skills in data processing, visualization, and
predictive analytics.

Dot Com Infoway- Data Science(June 20, 2025 - July 18, 2025)
   Working on data analysis and visualization using tools like Python, NumPy, Power BI, and assisting with SQL-
based data handling for business insights.