

PRAVEEN KUMAR GOPINATH MANJULA

Artificial Intelligence Engineer

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PROFILE

AI Engineer and M.Sc. Artificial Intelligence student at Brandenburg University of Technology (BTU), Germany, with hands-on experience in Machine Learning, Computer Vision, NLP, Data Analytics, and Cybersecurity. Passionate about developing intelligent, scalable AI solutions for real-world applications.

EDUCATION

M.Sc. Artificial Intelligence 2025 – Present

Brandenburg University of Technology Cottbus–Senftenberg (BTU), Germany

- Focus: Machine Learning, Neural Networks, and Intelligent Systems

B.Tech Artificial Intelligence 2021 – 2025

SRM Institute of Science and Technology, Chennai, India

- CGPA: 8.55 / 10.0

PROFESSIONAL EXPERIENCE

Data & Operations Intern — SHOEfabrik Dec 2023

Ho Chi Minh City, Vietnam

- Analysed operational data to identify process inefficiencies in a fast-paced manufacturing environment.
- Supported cross-functional teams with data reporting and digital workflow optimisation.
- Gained exposure to international business operations and agile project delivery.

AI & ML Intern — EduSkills

- Gained experience in Python programming; enhanced machine learning skills and implemented models.
- Analysed data with various learning types and frameworks.

AI-ML Virtual Internship (10 weeks) — AICTE / EduSkills May – Jul 2023

Supported by AWS Academy

- Completed hands-on tasks covering AI and machine learning workflows and model development.

Cybersecurity Virtual Internship (10 weeks) — AICTE / EduSkills Sep – Nov 2023

Supported by Palo Alto Networks

- Covered network security, threat detection, firewall strategies, and cybersecurity defence mechanisms.

Zero Trust Cloud Security Virtual Internship (10 weeks) — AICTE / EduSkills Apr – Jun 2024

Supported by Zscaler

- Focused on Zero Trust architecture, cloud security best practices, and identity-based access control.

PROJECTS

S.H.A.D.Y – Smart Human Activity Detection Using YOLO Feb – Apr 2021

- Built a real-time human activity recognition system using the YOLO deep learning framework on video feeds.
- Achieved high accuracy for multi-class activity detection for security surveillance and smart automation.

IoT-ESP32 Computer Vision Application May – Sep 2022

- Integrated ESP32 microcontroller with a camera module for real-time image recognition and remote monitoring.
- Deployed processed data to cloud dashboards, enabling smart environmental monitoring and automated control.

Contact Management System (C) Jan – Feb 2022

- Designed a full-featured CLI application in C with persistent file-based storage for contact CRUD operations.
- Applied structs, file I/O, and menu-driven logic in a clean, modular codebase.

Calendar Management System (C) Jan – Mar 2022

- Programmed a dynamic calendar generator handling leap-year logic and day-alignment for any input year.

Guessing Number Game Jul 2026

- Developed an interactive number-guessing game with randomised targets, input validation, and attempt tracking.
- github.com/GMP-19/Guessing-Number-Game

SKILLS

Programming	Python, SQL
AI / ML Frameworks	YOLOv5/v8, scikit-learn, NumPy, Pandas, OpenCV
IoT & Embedded	ESP32, Arduino, Wi-Fi/BT Protocols, Sensor Integration
Cloud & DevOps	AWS, Google Drive API, Git / GitHub, Linux CLI
Cybersecurity	Zero Trust Architecture, Cloud Security, Network Defence (Zscaler, Palo Alto)
Data & Visualisation	Matplotlib, Seaborn, Jupyter Notebook, Power BI
Productivity	MS Office (Word, Excel, PowerPoint), Google Workspace
Languages	Telugu (Native), Tamil (C2), English (C1), German (B1 – progressing)
Soft Skills	Analytical Thinking, Fast Learner, Team Collaboration, Problem-Solving

CERTIFICATIONS & WORKSHOPS

Artificial Intelligence & Machine Learning

- Fundamentals of Cybersecurity (EDU-102) — Zscaler Academy | May 2024 · Cert No: g4ds42rg376p
- Data Analysis Using Python — IBM Developer Skills Network | Jun 2022
- Introduction to Artificial Intelligence — Great Learning Academy | Apr 2023
- Introduction to Neural Network — Great Learning Academy | Jun 2023
- Python for Machine Learning — Great Learning Academy | Apr 2023
- Python Fundamentals for Beginners — Great Learning Academy | Apr 2023
- Computer Vision & YOLO Fundamentals — Self-directed (GitHub & academic literature)

Cloud, Cybersecurity & Networking

- Foundations of Cybersecurity — Google (via Coursera) | Oct 2023
- AWS Academy Cloud Foundations — AWS Academy (20 hrs) | Jan 2023
- AWS Academy Data Analytics — AWS Academy (7.5 hrs) | Jan 2023
- National Intellectual Property Awareness Programme — IP India | Jan 2023

Programming & Development

- Programming in Python — Meta (via Coursera) | Dec 2023
- Basics of Python Programming — OpenWeaver | Feb 2023
- Basics of JavaScript Programming — OpenWeaver | Feb 2023
- Basics of HTML/CSS for Beginners — OpenWeaver | Apr 2023
- Visual Graphics in C — Great Learning Academy | Dec 2023

Digital Marketing & Analytics

- Digital Ad Certificate — Digital Ad Expert by Aleph | Oct 2023
- Digital Marketing Tools and Techniques — Simplilearn SkillUp | Mar 2024
- Introduction to Affiliate Marketing for Beginners — Simplilearn SkillUp | Mar 2024
- Google Analytics — Simplilearn SkillUp | Mar 2024
- Marketing Analytics — Great Learning Academy | Mar 2024

Job Simulations & Professional Development

- Technical Consulting Job Simulation — SAP (via Forage) | Nov 2023 · Tasks: Data Assembly, Data Analysis, Presenting Results
- On-Premise Sales Job Simulation — Red Bull (via Forage) | Nov 2023 · Tasks: Account Data Analysis, Overcoming Sales Objections