

PRANATH PRASANTH

BTech student

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Professional Summary

Adaptable BTech Computer Science student with a strong foundation in Python, signal processing, and data-driven problem solving. Experienced in handling real-world sensor data, optimizing analytical workflows, and supporting technical operations through defense-research and industry internships. Known for troubleshooting ability, teamwork, and fast learning—bringing a strong interest in system deployment, field operations, and delivering reliable technical support in high-performance engineering environments.

Work Experience

Research Intern – AI in Acoustic Signal Processing

Naval Physical and Oceanographic Laboratory (NPOL), DRDO | Jun 16th 2025 - Jun 30th 2025

- Applied Neural Networks & CNNs for sonar target classification using TensorFlow/Keras.
- Converted acoustic signals to spectrograms; optimized models with BatchNorm, Dropout, Early Stopping, and Transfer Learning (VGG16).

Intern

IBM | Jun 2024 - Aug 2024

- Completed IBM SkillsBuild training in **Data Analytics** and digital technologies.
- Assisted in real-world problem-solving, workflow optimization, and report preparation.
- Strengthened teamwork, organizational, and technical skills through collaborative projects.

Education

Higher Secondary Education (Class XII)

Chinmaya Vidyalyaya

03/2023

Ernakulam, India

Bachelor of Technology: Computer Science & Engineering

Govt. Model Engineering College

Pursuing (3rd year)

Ernakulam, India

Activities and Accomplishments

NASA Space Apps Challenge 2024 — Developed an AI-powered platform (Carbon Tally) to predict carbon emissions, provide eco-friendly insights, and gamify climate action. |

Hackathon Team - CodeFathers — Participated in national-level coding competitions and hackathons, with a focus on sustainable tech and innovative problem solving

Certifications

Google Analytics Individual Qualification

Google, 05/01/2024

Project Management Fundamentals

IBM, 08/07/2024

Data Fundamentals

IBM, 15/07/2024

GenAI Powered Data Analytics Job Simulation

TATA (Forage), 24/09/2025

Introduction to Natural Language Processing

Infosys Springboard, 10/10/2025

Introduction to Artificial Intelligence

Infosys Springboard, 10/10/2025

Introduction to Deep Learning

Infosys Springboard, 12/10/2025

Prompt Engineering: Shaping Better AI Responses

IBM, 08/12/2025

Ethical Considerations for Generative AI

IBM, 15/12/2025

Skills

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|--------------------|------------------------|
| • Python | • Data analysis |
| • Machine learning | • Software development |
| • Problem solving | • HTML-CSS |
| • Java | • MySQL |
| • Golang | |