

Subha Pattnaik

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EDUCATION

DAYANANDA SAGAR UNIVERSITY

B.TECH IN COMPUTER SCIENCE (AI-ML) | 2020-2024
Bengaluru, India
CGPA: 8.42 / 10.0

COURSEWORK

UNDERGRADUATE

Advanced Machine Learning
Reinforcement Learning
Robotics
Deep Learning
Data Science
Natural Language Processing
Mathematics for Machine Learning

SKILLS

Programming Languages: Python, Java, C++, JavaScript

Frameworks and Libraries: TensorFlow, PyTorch, Keras, scikit-learn

Generative AI: Prompt Engineering, Fine-tuning, RAG

Natural Language Processing: Transformers, BERT, Text Preprocessing, Language Modeling

Computer Vision: OpenCV, YOLO, Object Detection, Image Segmentation

Data Science: Pandas, NumPy, Matplotlib, Seaborn

Tools: Git, Docker, Kubernetes, Jenkins

Soft Skills: Team Collaboration, Problem Solving, Agile Methodologies

LINKS

Github:// [QuantumWars](#)
LinkedIn:// [subhapattnaik](#)
Website:// [Subha-Pattnaik](#)

EXPERIENCE

MEDIQUEUE | SOFTWARE ENGINEER INTERN

Mar 2022 - June 2022 | Kolkata, India

- Developed the frontend of the Mediqueue app using Flutter, a cross-platform framework for over 5,000 users.
- Implemented new features and enhancements, resulting in a 20% increase in user engagement.
- Optimized app performance, reducing loading times by 30% and improving overall responsiveness.

SUPPLY WISDOM | DATA SCIENCE INTERN

July 2023 - Oct 2023 | Bengaluru, India

- Conducted real-time data analysis on over 100,000 data points to identify and mitigate risks.
- Integrated large language models (LLMs) and Neo4j into data science workflows to model and analyze complex relationships within the data, enabling advanced risk assessment and improving data processing efficiency by 25%.

PROJECTS

HUMAN SLEEP ANALYSIS USING EEG SIGNALS

- Developed a diagnostic tool accuracy. Employed signal processing and ML to classify sleep stages, analyzing for identifying insomnia with 85% accuracy.

LLM-POWERED STOCK PREDICTION TOOL

- Integrated LLMs with financial analytics to analyze market data from over 1 million data points achieving a 15% improvement in forecast accuracy.

PRECISION MOTION TRACKING IN DRONE SYSTEM

- Used YOLOv8 and ByteTrack for real-time object detection and tracking, achieving 90% tracking accuracy.
- Integrated depth estimation for 3D environmental understanding, enhancing obstacle avoidance by 40%.
- Applied a Kalman filter for accurate path prediction, improving tracking precision by 25%.

AWARDS

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| 2020 | Winner - Debugathon
Dayananda Sagar University, Bengaluru, India
Nov 2020 |
| 2023 | Winners - Smart India Hackathon (SIH) 2023
Ministry of Education, India
Dec 2023 |
| 2024 | Best Paper Award
East Point College of Engineering and Technology, India
May 2024 |
| 2024 | Best Interdisciplinary Project
Dayananda Sagar University, Bengaluru, India
May 2024 |