

Arunkumar Aluru

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AI Researcher

B.Tech Computer Science graduate with strong foundations in data structures, programming, and software development. Hands-on experience in AI/ML projects including renewable energy forecasting and real-time sentiment analysis tools. Skilled in Python, Java, and full-stack development, with a keen interest in building scalable, intelligent systems. Possess strong communication skills, a collaborative mindset, and the flexibility to work in dynamic, fast-paced environments.

Education

Kalasalingam Academy of Research and Education, AIML in Computer Science

July 2021 – May 2025

- GPA: 7.97
- **Coursework:** Artificial Intelligence & Machine Learning, Deep Learning & Neural Network, Natural Language Processing (NLP), Data Structures & Algorithms, Database Management Systems (DBMS), Software Engineering

Skills

- **Languages:** Java, Python, SQL
- **Frontend:** HTML, CSS, Basics of JavaScript, Firebase
- **Concepts:** Data Structures, Deep Learning, LLM, SDLC, Neural networks
- **Databases & Clouds:** MySQL
- **Tools:** Visual Studio, Eclipse IDE, Jupyter Notebook
- **Soft Skills:** Team collaboration, communication, multitasking, adaptability

Machine learning Intern(Remote), Teachnook – Bengaluru, India

June 2023 – Aug 2023

- Developed a CNN-based Pneumonia Detection System using chest X-rays with 95% accuracy and deployed it via a Flask web app.
- Optimized model performance with data preprocessing and collaborated on real-world validation.

Projects

**Renewable energy prediction using
Deep learning and Generative AI**

[github/ Renewable energy](#)

- Designed LSTM and CNN models to predict solar and wind energy generation from historical data.
- Integrated Generative AI for improved forecasting accuracy; published in ICICNIC 2024 (IEEE Conference).

Crypto Price Prediction

[github/ Crypto Prediction](#)

- Developed a full-stack crypto price prediction dashboard using React.js and Flask with real-time forecasting.
- Integrated RESTful APIs and deployed the app using GitHub Actions and Docker for automation and scalability.

Publications

**Renewable energy prediction using
Deep learning and Generative AI**

Dec 2024

T. John Institute of Technology, Bengaluru, India
<https://ieeexplore.ieee.org/document/10823172>

Certifications

Languages: Python, Java, Deep Learning in Neural Networks

Technologies: Neural Networks, UX Design