

# NANDANA NARAYAN DAS

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## Professional Summary

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B.Tech graduate in CSE (AI) and current M.Tech student in AI and Data Science, passionate about building intelligent systems. Proficient in Python, OOP, NLP, and Computer Vision, with hands-on experience using TensorFlow and scikit-learn to develop AI/ML solutions. Eager to contribute to innovative projects in a challenging role.

## Projects

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### Disease Detection Using Tongue Imaging

- Developed an AI-based diagnostic tool for non-invasive disease detection.
- Integrated Explainable AI to enhance interpretability for healthcare professionals

### Spring Boot Application for Service Instance Management

- Built a Spring Boot application for dynamic registration, heartbeat scheduling, and deregistration of service instances.
- Developed **RESTful** APIs to enable secure communication with **basic authentication**.

### Video Summarization Tool

- Converted video to text using speech recognition and NLP techniques.
- Implemented text summarization using Python, SpeechRecognition, and NLTK.

## Publications

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### Explainable AI for Disease Detection and Body Constitution Analysis Using Tongue Imaging: A Deep Learning Approach for Non-Invasive Diagnostics

Published in *IEEE Xplore*, presented at **ICTEST 2025**.

<https://ieeexplore.ieee.org/document/11042469>

## Work Experience

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### Backend Servicing Intern — Covacsis Technologies (Remote) *June 2024 – July 2024*

- Collaborated on backend development using Java, Apache Pinot, and Spring Boot.
- Designed and implemented features for managing service instances, ensuring high availability and performance.

## Positions Held

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- Mentor, CSI SB ASIET (2024-25)
- Editor, Saakshin (2022-2024)

## Technical Skills

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- **Programming Languages:** C, Java, Python
- **AI/ML Expertise:** TensorFlow, scikit-learn, Pandas, NumPy, NLTK, basic PyTorch, Deep Learning, NLP, Computer Vision
- **Languages:** Malayalam (Native), English (Fluent)

## Certifications

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- **Artificial Intelligence Foundation Digital Credential** (IBM)
- **Career Essentials in Generative AI** by Microsoft and LinkedIn (LinkedIn Learning)
- 30 Hours Add-on Course on Generative AI
- **Artificial Intelligence Foundation Certification** (Infosys Springboard)

## Education

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- **M.Tech in AI and Data Science**  
Alliance University *2027*
- **B.Tech in Computer Science and Engineering (Artificial Intelligence)**  
Adi Shankara Institute of Engineering and Technology *2025*
- **Class XII (ISC)** — St. Aloysius Convent ISC School *2021*
- **Class X (ICSE)** — St. Aloysius Convent ISC School *2019*