Nandakumaran S.

I'm a passionate and curious B.Tech student specializing in Artificial Intelligence and Data Science. I've built several hands-on projects ranging from facial recognition systems and parental control apps to medical image segmentation using deep learning. I enjoy solving real-world problems using data and have experience with Python, Power BI, and various ML tools. I'm currently looking for a Data Science internship where I can contribute to meaningful work while learning and growing alongside a strong team.

Experience

Software Developer, Octonauts Infotech

Sep 2024- Mar 2025

• Gained experience in Wordpress elementor, PHP, woo-commerce by working in a E-ticketing Project.

Freelancing Full-stack Developer

Jan 2024 - Present

- Worked on web development projects using React, Next.js, and Node.js.
- Integrated data science tools into full-stack solutions, focusing on interactive visualizations and efficient data handling.

Google Developer Group (GDG) Event Management Head Jan 2024 – Present

• Led the organization of tech events, workshops, and seminars, bringing industry leaders from IIT Madras and ISRO.

Projects

Medical Image Segmentation using U-Net (Ongoing)

 Developing a deep learning model to detect Multiple Sclerosis (MS) regions from MRI scans using U-Net architecture. The focus is on grayscale mask processing, 3D volume handling with Nibabel, and PyTorch-based semantic segmentation.

Satellite Image Segmentation using Deep Learning (2024)

 Built a U-Net based segmentation model to analyze and classify satellite imagery. Focused on tasks like land cover mapping and object detection using convolutional layers, skip connections, and pixel-wise prediction techniques.

SNP Analysis & PRS Dashboard (Ongoing)

 Developed a full-stack platform to explore SNP (Single Nucleotide Polymorphism) data, filter disease-related variants, and calculate Polygenic Risk Scores (PRS) for specific genes and rsIDs. Integrated pathway enrichment insights and interactive data visualization using React (Next.js), Node.js, and Chart.js.

Educational Background

Bachelor of Technology in Artificial Intelligence and Data Science

Saveetha University, Chennai Sep 2022-May 2026

- Specialization in Artificial Intelligence and Data Science
- CGPA 8.3 (Jul 2024)

Higher Secondary Education

SRV Matric. Hr. Sec. School, Trichy May 2021

· Stream: Biology, Chemistry, Maths, Physics

• Percentage: 84%

Contact

nandakumaran005@gmail.com +91 7395959112 1/3 Kumudham Street, LIC colony, Trichy, TN 620021

Skills

Programming Languages:

Proficient: Python Intermediate: JavaScript, C, C++, Java

Data Science & Machine Learning:

- Data Preprocessing, Exploratory Data Analysis (EDA), Model Development, Feature Engineering, Deep Learning (PyTorch, TensorFlow)
- Power BI, Matplotlib, Seaborn, Plotly
- Pandas, NumPy, Scikit-learn, Keras

Databases:

• SQL (MySQL), MongoDB

Web Development:

- Frontend: HTML, CSS, React (Next.js)
- Backend: Node.js, Express.js
- Tools & Technologies:Jupyter Notebooks, Docker, Git, Chart.js

Soft Skills

- Communication
- Teamwork
- Punctuality
- Problem Solving

Languages

- English (Fluent)
- Tamil (Fluent)
- · Malayalam (Intermediate)

Certification/Short Courses

- JAVA Masterclass course by letsupgrade
- MySQL&SQL training & internship by logritha.
- Hands on workshop onAl with ML&DS by Edufabrica at IISc Banglore.
- Runner-up in a national conference at Vel Tech High Tech Campus.