

Vishnu Sundhan

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EDUCATION

New York University

Brooklyn, New York

M.S. in Computer Science | CGPA: 3.35

May 2026

- **Related Coursework:** Data Visualization, Data Structures and Algorithms, Machine Learning, Big Data.

Rajalakshmi Engineering College, Anna University

Chennai, India

B.E. in Computer Science and Engineering | CGPA: 8.94

Nov 2020 - May 2024

- **Related Coursework:** Linear Algebra and Calculus, Data Science and statistics, Artificial Intelligence.

EXPERIENCE

Populus Empowerment Network

Chennai, India

Python Data Intern

Jan 2024 – June 2024

- Headed the analysis and processing of large scale electoral datasets for the 2024 Indian elections, utilizing data scraping technologies like BeautifulSoup and Selenium achieving over 95% data accuracy using OpenCV, Pandas, and NumPy.
- Developed and deployed a Convolutional Neural Network (CNN) for image classification and manipulation, which improved the quality and granularity of election data insights and data-driven decision-making.
- Automated the extraction and analysis of data from scanned documents using Tesseract OCR, Amazon Textract API, Google OCR API and optimized processing workflows, significantly reducing data extraction errors for over 6 million voter records.

Rajalakshmi Engineering College

Chennai, India

AI Research Assistant

Oct 2023 - Jan 2024

- Collaborated with a professor to develop the research paper "Neuroimaging Analysis for Early Diagnosis of ADNI Progression with EfficientNet" ([Link](#)), to detect Alzheimer with 99.06% accuracy with hyperparameter tuning.
- Worked on a Journal Paper and Co-authored the research paper ([Link](#)) "Enhancing Online Learning with Automated Emotion Identification using Facial Expressions," employing transfer learning models to analyze facial characteristics and emotions.

Logicfield Technology Solutions pvt ltd

Chennai, India

Data Analyst Intern

June 2023 – Aug 2023

- Designed and implemented machine learning models for risk assessment for 3 disasters in the insurance industry, focusing on geospatial analysis and catastrophic event prediction enabling accurate risk profiling for companies.
- Integrated advanced predictive algorithms using Tensorflow js, Scikit-learn, keras with Node Js application to minimize financial risk exposure, visualize it with PowerBI, delivering key insights that informed executive decision-making.

PROJECTS

ProjectHub AI

Chennai, India

Personal Project | Skills: Nodejs, Gemini API, Postgresql, Amazon S3, Tailwind CSS

Jan 2024 – Feb 2024

- ProjectHub AI is Node.js-based website enabling students to post projects, find teammates, and collaborate. Utilized PostgreSQL for database management and experimented with Amazon S3 for efficient data storage. Integrated AI to extract skills from resumes and intelligently match users to projects.

Care Companion AI

Chennai, India

Team Lead | Skills: Django, Transformers, XAI, Lime, Bootstrap, Seaborn, matplotlib

Nov 2023

- Developed a Django application for disease predictions utilizing multiple machine learning models, significantly enhancing user engagement with an interactive medical fine tuned chatbot powered by transformers.
- Incorporated neural networks for image-based disease diagnosis, integrating GRAD-CAM for explainable AI to visualize model decisions, ensuring transparency and trust in predictions for medical professionals and end-users alike.

Auto ML Wizard ([Link](#)) & Binary Insight AI ([Link](#))

Chennai, India

Personal Project | Skills: Python, Streamlit, Sklearn, Tensorflow

Jan 2024 – Feb 2024

- A comprehensive tool with Streamlit to streamline machine learning and neural network workflow. Allows users to effortlessly upload datasets, images, perform EDA, build/train models and evaluate performance of over 9 models.

COMPETITIONS

AmberHacks Hackathon Winner ([Leaderboard](#))

Jan 2025

Built a Flask-powered web app (Poseidon's AI) leveraging Gemini Vision AI, Google Maps API, and Pexels API to provide visual species locations, rich media, and detailed marine life insights.

Biomimicry Hackathon Winner ([Leaderboard](#))

Feb 2025

Created an AI Application to generate Biomimicry ideas with 3D Models which are inspired from animal characteristics.

SKILLS

Programming Languages: Python, R, Javascript, SQL, Java

Frameworks & Libraries: TensorFlow, PyTorch, Spacy, Pydantic AI, NumPy, Nextjs, MongoDB, D3js, Docker, Crew AI, LangGraph

Tools & Technologies: Hadoop, Git, AWS S3, DynamoDB, AWS Sagemaker, PowerBI, Microsoft Excel, Weka, HTML, CSS