

Vishnu Sundhan

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EDUCATION

New York University

M.S. in Computer Science | CGPA: 3.72

New York, USA

August 2024 - May 2026

- **Related Coursework:** Software Engineering, Data Structures and Algorithms, Machine Learning, Deep Learning.

Rajalakshmi Engineering College, Anna University

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

Chennai, India

Nov 2020 - May 2024

- **Related Coursework:** Operating Systems, Data Science and statistics, Artificial Intelligence, Statistics, Discrete Mathematics.

EXPERIENCE

Tata Technologies

Generative AI Engineer Intern

Pune, India

June 2025 - July 2025

- Developed and deployed agentic AI applications to enhance internal workflows within Tata's engineering ecosystem using LangChain, LangGraph, CrewAI, and Gemini Vision for efficient project coordination, timeline and meeting summarization.
- Achieved 96% precision in anomaly detection on machinery sensor data by applying statistical techniques with machine learning models with Pytorch, enabling early fault prediction and minimizing equipment downtime.

Populus Empowerment Network

Data Science Intern

Chennai, India

Jan 2024 - June 2024

- Headed the analysis and processing of 6 Million electoral datasets for the 2024 Indian elections, building pipelines with BeautifulSoup, Selenium, and MySQL based ETL workflows achieving over 95% data accuracy using Pandas, and NumPy.
- Automated the extraction and analysis of data from scanned documents using CNNs, RNNs, Tesseract OCR, Amazon Textract API, and optimized processing workflows, significantly reducing data extraction errors for over 6 million voter records.

Rajalakshmi Engineering College

AI Research Assistant (Published 5 AI/ML Research papers)

Chennai, India

Oct 2023 - Jan 2024

- Collaborated with a professor on an IEEE Alzheimer-detection study ([paper](#)), applying clinical MRI preprocessing and deep learning models to achieve 99.06 percent accuracy using Python, TensorFlow, PyTorch, scikit-learn, and OpenCV.
- Co-authored an IEEE brain MRI segmentation and classification project, developing CNN based workflows, experimenting with Hugging Face models, and building image processing pipelines for accurate region detection and medical analysis.

LogicField Technologies Pvt Ltd

Machine Learning Intern

Chennai, India

June 2023 - August 2023

- Designed and implemented machine learning models for risk assessment for 3 disasters in the insurance industry, using geospatial analysis, PostgreSQL workflows, and catastrophic event prediction to enable 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

Refractor Radar AI Agent (AR First-Aid Trainer) ([Refractor Radar project](#))

New York, USA

Team Project | Skills: Semantic Embeddings, Similarity Clustering, Graph Theory, NetworkX, Automation

Nov 2025

- Developed an AI powered codebase analysis tool that extracts AST structures, embeds functions using Gemini, and identifies duplication through semantic similarity and clustering for scalable code intelligence automation workflows.
- Integrated ChromaDB, CrewAI, and graph based visualizations to detect refactoring opportunities and generate intelligent code change recommendations with diffs and impact analysis across large projects efficiently and reliably.

Pregpose Pal ([Pregpose Pal Project](#))

New York, USA

Team Project | Skills: Numpy, Python, FastAPI, OpenCV, Sensor Data Processing, Accelerometer and Gyroscope Analysis

July 2025

- A phone sensor based posture safety tool using Flask, Pytorch, and OpenCV to detect risky pregnancy movements in real time. Implemented personalized model training, instant feedback, visualizations using accelerometer and gyroscope data.

COMPETITIONS

3PercentHacks Hackathon Winner (1st Place) ([3percenthacks Leaderboard](#))

June 2025

Built GameAble AI, Desktop app for hands-free gaming using real-time pose control, with an AI agent to create custom pose models.

ML Olympiad - Kaggle Competition Winner (1st Place) ([Kaggle Leaderboard](#))

Feb 2024

Achieved the lowest MAE score of 1.33 in the ML Olympiad 2024 Kaggle competition by leading a collaborative team effort, engineering novel features, building and fine-tuning regression models, optimizing hyperparameters for consistent performance.

SKILLS

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

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

Frameworks & Libraries: TensorFlow, PyTorch, scikit-learn, Pandas, NumPy, XGBoost, LightGBM, OpenCV, Transformers, Hugging Face, FastAPI, Flask, React, Docker, LangChain, LangGraph, CrewAI, ChromaDB, Jupyter Notebook, MLflow, PyTorch Lightning