

SAMITH NITTA

Artificial Intelligence Machine Learning Undergraduate

Phone: +91-7075795309 **Email:** samithnitta6@gmail.com **LinkedIn:** linkedin.com/in/samithnitta
GitHub: github.com/nittasamith1 **Portfolio:** samith-portfolio-ten.vercel.app

Career Objective

Passionate Artificial Intelligence and Machine Learning undergraduate with strong foundations in Python, Machine Learning, Data Analysis, and Data Structures. Experienced in building end-to-end machine learning projects involving data preprocessing, feature engineering, model development, and performance evaluation. Seeking an AI/ML and Data Science Internship to apply analytical and problem-solving skills while contributing to real-world intelligent solutions.

Skills

Programming Languages: Python, Java, C/C++, JavaScript, SQL

Machine Learning: Scikit-learn, TensorFlow (Basics), Supervised Learning, Classification, Regression, Model Evaluation, Feature Engineering, Data Preprocessing

Data Science: Pandas, NumPy, Matplotlib, Exploratory Data Analysis (EDA), Data Cleaning, Data Visualization, Statistical Analysis

Databases: MySQL, MongoDB (Basics)

Developer Tools: Git, GitHub, VS Code, Jupyter Notebook, Google Colab

Core CS: Data Structures & Algorithms, OOP, DBMS, Operating Systems, Computer Networks (Basics)

Currently Learning: Generative AI, LLMs, Prompt Engineering, NLP, Computer Vision, FastAPI, RAG, LangChain, AI Agents

Projects

AgriCrop - AI-Powered Precision Agriculture — Python, TensorFlow, Pandas, NumPy

- Developed an AI-powered agriculture application for crop disease prediction and soil moisture analysis.
- Performed data preprocessing, feature engineering, model evaluation, and visualization on agricultural datasets.
- Built an interactive dashboard for prediction results and crop health insights.
- Built a crop disease prediction model trained on 90+ crop images and achieved **94.2%** validation accuracy.

AI Gmail Job Tracker – Intelligent Email Classification — Python, MySQL

- Developed an application to automatically categorize recruitment emails into Interview, Assessment, Offer, Rejection, and Other.
- Designed a MySQL database with efficient search and filtering for application tracking.
- Automated classification of **100+** recruitment emails into **5** categories, improving application tracking efficiency.
- Improved recruitment management through automated email organization and status monitoring.

Credit Card Fraud Detection — Python, Scikit-learn, Random Forest, Pandas, NumPy, SMOTE

- Built a Random Forest model for fraud detection using data preprocessing, feature engineering, and SMOTE.
- Evaluated model performance using Precision, Recall, F1-Score, ROC-AUC, and Confusion Matrix.
- Trained a Random Forest model on **23,770** transactions after preprocessing and SMOTE balancing.
- Achieved a **0.97 ROC-AUC** with strong Recall and F1-Score on the evaluation dataset.
- Optimized model performance through systematic experimentation and hyperparameter tuning.

Certifications & Achievements

- **Coursera:** Machine Learning, Data Analysis Certifications **GeeksforGeeks:** Python, SQL Certifications, 5-Star Python Badge
- Solved **100+** **Data Structures & Algorithms** problems on **LeetCode** and **GeeksforGeeks**, strengthening problem-solving and algorithmic skills.

Education

B.Tech in AI/ML

Expected Graduation: 2028 *Aditya University*

CGPA : 9.20/10