Priyanshu Mudgal, Machine Learning Engineer

Gurugram , Haryana, India, 9319710134, priyanshumudgal175@gmail.com

LINKS

Portfolio, Linkedln, GitHub

PROFILE

Detail-oriented Machine Learning Engineer with hands-on experience in AI application development, data analysis, and full-stack development. Proficient in implementing machine learning algorithms, data preprocessing, and building end-to-end ML solutions. Strong background in Python programming, deep learning frameworks, and web development technologies.

PROFESSIONAL EXPERIENCE

Mar 2024 — Present

Machine Learning Engineer, Credent Infotech Solution LLP

Gurugram , Haryana

- Engineered a Business Operation Management System (BOMS) using React.js for frontend and Django for backend, improving operational efficiency by 30%
- Developed a web-based OCR text extraction system with custom fine-tuned ML models, achieving 95% accuracy in document text recognition
- Worked extensively on **LLMs, Computer Vision, Deep Learning, SQL databases, React, and Django**.

Jun 2023 — Jul 2023

Data Analyst Intern, Maruti Suzuki India Limited

Gurugram , Haryana

- Conducted comprehensive analysis of financial year call management dataset using Python (NumPy, Pandas, Matplotlib)
- Identified key patterns and generated actionable insights that led to 15% improvement in call handling efficiency
- Presented analytical findings to management, supporting data-driven decision-making processes

Jun 2023 — Jul 2023

Machine Learning Intern, IBM SkillsBuild

Remote

- Developed a Mental Fitness Tracker model to predict mental health status across global populations
- Implemented and optimized multiple ML algorithms including Linear Regression, Decision Trees, SVM, and Random Forests
- Performed end-to-end ML pipeline development: data preprocessing, feature selection, model training, evaluation, and validation

EDUCATION

2021 — Present

B.Tech. in CSE (Artificial Intelligence and Machine Learning), Dronacharya College of Engineering

Gurugram , Haryana

CGPA: 8.1/10

2021

Senior Secondary (PCM), M.D. Senior Secondary School

Gurugram , Haryana

Percentage: 80%

2019

Secondary, Vivekanand Global School

Gurugram , Haryana

Percentage: 88%

SKILLS

- **Machine Learning & AI**: Deep Learning, Predictive Modeling, Statistical Analysis, Computer Vision, NLP, Data Preprocessing, Feature Engineering, Model Evaluation
- **Programming Languages**: Python, Java, C, SQL, JavaScript, HTML, CSS
- **Libraries & Frameworks**: TensorFlow, Keras, PyTorch, Scikit-learn, NumPy, Pandas, Matplotlib, NLTK, OpenCV, React.js, Django, Flask
- **Databases**: MySQL
- **Tools & Platforms**: Jupyter Notebook, Google Colab, Visual Studio Code, Git, GitHub, Firebase
- **Concepts**: MLOps, Data Structures & Algorithms, Object-Oriented Programming, RESTful APIs

PROJECTS

Jun 2024 — Present

KrishiShakti - Smart Agriculture System

- Developed an AI-powered agriculture system leveraging Python, React, Firebase, SQL, and IoT technologies (ESP8266, RS485, NPK Sensors)
- Implemented machine learning algorithms to recommend optimal fertilizers based on soil analysis, crop type, and environmental conditions
- Created a responsive React-based web dashboard for real-time monitoring and control of irrigation systems
- Designed and integrated hardware components enabling automated pump control and data collection
- Implemented cloud data management via Firebase for seamless data synchronization and analytics

Mar 2024 — May 2024

IntelliTrade - AI-driven Stock Prediction Model

- Engineered a stock prediction system using LSTM neural networks and SVM to forecast price movements
- Implemented NLP techniques for sentiment analysis of financial news to enhance prediction accuracy
- Designed algorithms to determine optimal buy/sell signals based on historical patterns and news sentiment
- Achieved 83% accuracy in short-term prediction models through feature engineering and hyperparameter tuning

Dec 2023 — Feb 2024

PlantGuard - AI-Powered Plant Disease Detection

- Led development of a comprehensive agricultural AI system for plant disease diagnosis, yield estimation, and crop recommendation
- Implemented CNN models for image-based disease detection with 92% accuracy across multiple crop species
- Utilized RandomForestClassifier and RandomForestRegressor for crop recommendation and yield prediction
- Integrated TensorFlow and Scikit-learn pipelines for efficient model training and deployment

ACHIEVEMENTS

- **1st Runner-Up** at the Innovation Design and Entrepreneurship Bootcamp (Edition 2 - Phase II).
- **1st position** Data Prophet (Hackathon) Organized by IIT BHU, Varanasi.
- **1st position** in Innovate and Iterate (Hackathon) organized by IIIT, Sri City, Andhra Pradesh.
- **Finalist** of Hack to crack National level Hackathon organized by VIMEET, Maharashtra.
- **Finalist** of Analytic Arena (Hackathon) organized by IIIT, Sri City, Andhra Pradesh.
- **2nd position** in Hack-o-relay organized by GDSC–DCE.
- **1st position** in Mavericks Dronathon.