PRIYANSH SINGH

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EDUCATION

VIT BHOPAL UNIVERSITY Bhopal, Madhya Pradesh
Bachelor of Technology in Computer Science and Engineering. 2022- 2026
GPA: 8.4/10.00

TECHNICAL SKILLS

Programming Languages: C++, Python, JavaScript, HTML/CSS, Tailwind
Tools & Technologies: Docker, Git, APIs, MySQL
Artificial Intelligence: Machine Learning, Deep Learning, TensorFlow, PyTorch
Natural Language Processing: Scikit-learn, Pandas, Numpy

PROJECTS

POTATO AGE CLASS *(Deep Learning)*

- Engineered a CNN-based potato age classification system using advanced image preprocessing, custom data augmentation, and optimized hyperparameters to achieve 95%+ accuracy in agricultural quality control.
- Deployed a high-speed FastAPI inference engine with asynchronous processing, reducing prediction latency to <50ms while maintaining 99.9% uptime for real-time farm monitoring applications.

SPAM CLASSIFIER *(Machine Learning)*

- Built a machine learning pipeline for spam detection using Scikit-learn, implementing NLP techniques like TF-IDF vectorization and text preprocessing (tokenization, stopword removal) to achieve 92% classification accuracy.
- Deployed an efficient spam filtering system that reduced manual email processing time by 60%, leveraging statistical feature extraction and model optimization to handle diverse linguistic patterns.

MENTAL STATE ANALYSER *(Machine Learning)*

- Built an NLP-based mental state classifier using Scikit-learn & TF-IDF, achieving 94% accuracy in detecting depression, anxiety, and stress via tokenization, stemming, and sentiment analysis.
- Deployed a real-time AI analyzer that cut screening time by 70%, using linguistic pattern recognition and hyperparameter-tuned ensemble models for high-precision text analysis.

CAR PRICE PREDICTOR *(Machine Learning)*

- Engineered a regression-based car price prediction system using Random Forest and XGBoost, implementing structured feature engineering, outlier treatment, and missing value imputation to achieve 92% R-squared accuracy on real-world automotive datasets.
- Optimized a scalable ML pipeline with hyperparameter tuning and cross-validation, reducing training time by 40% while identifying top-three influential features to improve prediction precision for multivariate vehicle attributes.

POSITION OF RESPONSIBILITY

TECHNICAL CONTENT LEAD (Robotics Club)
● Conducted a workshop with 60+ participants, fostering collaboration and innovation. .

ACHIEVEMENTS

- Made it into the final Round of Solvit-2025 Hackathon in the domain of Business Operations and Management.
- Into the Top 100 Teams among 4000+ Teams in Canara Suraksha Hackathon.

CERTIFICATIONS

- Advanced Learning Algorithms – Coursera
- Unsupervised Learning, Recommenders, Reinforcement Learning – Coursera