

# SHIVAM SHARMA

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| https://shivam15112003.github.io/shivam-portfolio/

## SUMMARY

AI Engineering graduate with hands-on experience in machine learning, deep learning, computer vision, and IoT. Skilled in building scalable AI systems, gesture-controlled interfaces, and cloud deployments. Seeking roles in AI, robotics, computer vision, ML, or autonomous systems.

## EDUCATION

<b>Master of Science in Robotics and Autonomous Systems (AI)</b> Arizona State University, Tempe, AZ	<i>Expected: May 2027</i>
<b>Bachelor of Technology in Artificial Intelligence</b> Amity University, Noida, Uttar Pradesh, India	Graduated May 2025, 7.9 CGPA

## TECHNICAL SKILLS AND CERTIFICATIONS

**Programming Languages:** Python, MySQL, R language, JavaScript, C.  
**Machine Learning Libraries:** TensorFlow, PyTorch, Keras, SciPy, NumPy, Pandas, Matplotlib, Scikit-Learn, and Seaborn.  
**Computer Vision Libraries:** OpenCV, Pillow, Mediapipe.  
**NLP libraries:** NLTK, Transformers (Hugging Face, GPT Models).  
**Certifications:** Applied AI (IBM, Coursera), Python For Data Science (NPTEL), Microsoft AI Participation, Aerial Robotics (University of Pennsylvania).

## PROFESSIONAL EXPERIENCE

<b>HCL Technologies, Noida, Uttar Pradesh, India: AI Engineer Intern</b>	January 2025–June 2025
<ul style="list-style-type: none"><li>Developed a supervised machine learning model to predict customer churn using Random Forest and Gradient Boosting models on a dataset of 500K customer records.</li><li>Performed extensive feature engineering (behavioral, transactional, and demographic features), which improved model AUC by 25% over the baseline logistic regression.</li><li>Optimized model performance by implementing hyperparameter tuning with GridSearchCV in Python using scikit-learn, Pandas, NumPy, and Jupyter Notebooks.</li></ul>	
<b>NullClass Technologies, Noida, Uttar Pradesh, India: Data Science Intern</b>	April 2024–June 2024
<ul style="list-style-type: none"><li>Developed a <b>Multi-Attribute Face Classifier GUI</b> using VGG16 &amp; MobileNetV2 to detect age, nationality, emotion, and dress code from facial images with <b>95% accuracy</b>.</li><li>Built deep learning-based systems for <b>emotion detection</b> from human faces, <b>female voice</b>, and <b>animal images</b>, achieving <b>accuracy between 91–94%</b>.</li><li>Created an <b>AI-powered vehicle sleep detection and age prediction system</b> using facial analysis, reaching <b>95% accuracy</b> in real-time driver monitoring.</li></ul>	

## ACADEMIC PROJECTS

<b>Smart Interaction: Gesture-Based Control with IoT and Virtual Input</b>	October 2024 – Feb 2025
<p>Led a team to develop a gesture control interface, improving user interaction for smart devices through intuitive control.</p> <ul style="list-style-type: none"><li>Developed an <b>AI-powered gesture recognition system</b> using Mediapipe, OpenCV, and Arduino for real-time multi-user hand tracking and IoT device control.</li><li>Achieved <b>94% gesture classification accuracy</b> on a custom dataset of 1,000+ samples, with an average response latency of ~75ms enabling smooth virtual input and smart device interaction.</li></ul>	
<b>AutoML Universal System: Scalable Adaptive Machine Learning</b>	May 2025–Aug 2025
<p>Designed and implemented an AutoML system supporting supervised, unsupervised and deep learning workflows with automated hyperparameter optimization.</p> <ul style="list-style-type: none"><li>Engineered an end-to-end <b>AutoML pipeline</b> integrating supervised, unsupervised, and deep learning (DNN) workflows with <b>Optuna-based hyperparameter tuning</b> and automated model selection.</li><li>Applied advanced preprocessing techniques including <b>SMOTE</b>, feature selection, and outlier handling; evaluated performance using <b>task-specific metrics</b> (accuracy, F1-score, RMSE, silhouette score) with <b>5-fold cross-validation</b> for robust generalization.</li></ul>	
<b>CineReco: AI-Powered Hybrid Movie Recommender (Deep Learning + NLP)</b>	May 2023–Aug 2023
<p>Developed an AI-powered movie recommender using deep learning with hybrid collaborative and content filtering.</p> <ul style="list-style-type: none"><li>Developed a hybrid movie recommendation system using Sentence-BERT and collaborative filtering, achieving <b>Precision@5 = 0.89</b> and <b>NDCG@5 = 0.92</b>. Implemented NLP-based preprocessing, semantic similarity scoring, cosine fusion, and cold-start handling via content-based embedding.</li></ul>	