# SUMIYA VEERURU

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## PROFESSIONAL SUMMARY

Aspiring Machine Learning Engineer with a solid foundation in Python, TensorFlow, and Flask, focused on building and deploying real-world machine learning solutions. Proven experience in designing predictive models and deep learning architectures, with strong expertise in end-to-end ML workflows including data preprocessing, model training, evaluation, and deployment. Proficient in using Docker for containerization and deploying ML applications on AWS. Demonstrated strong analytical and problem-solving skills through hands-on projects like **Credit Risk Prediction** and **Facial Emotion Recognition**, showcasing the ability to translate data into actionable insights and scalable applications.

## SKILLS

**Languages:** Python (Advanced), SQL (Intermediate)
**Tools & Frameworks:** TensorFlow, PyTorch, Scikit-learn, XGBoost, Keras, Docker, AWS EC2, Apache Spark
**Deep Learning Techniques:** CNNs, RNNs, LSTMs, Transformers (BERT, GPT)
**Data Analysis & Processing:** Pandas, NumPy, OpenCV
**Model Deployment:** Flask, FastAPI
**Databases:** MySQL, PostgreSQL
**Version Control:** GitHub
**Operating Systems:** Windows, Linux

## PROJECTS

**Credit Risk Prediction System: End-to-End Machine Learning Deployment**
*Technologies:* Python, OpenCV, TensorFlow, Streamlit
- Built and deployed a complete machine learning system to predict loan applicant risk levels. Applied data augmentation techniques to enhance model generalization and performance.
- Developed a user-friendly web application using Streamlit for real-time emotion detection.

**Facial Emotion Recognition Using Deep Learning**
*Technologies:* Python, Flask, Docker, AWS EC2
- Designed and trained a CNN-based model to classify facial emotions such as happy, sad, angry, and neutral.
- Developed a REST API with Flask for real-time predictions, packaged the solution using Docker, and deployed on AWS EC2.
- Implemented a retraining mechanism to update models based on incoming data, ensuring high accuracy and system robustness.

## EDUCATION

M.S. Computer Science with AI, **Dakota State University| May 2025**
B.Tech. Computer Science Engineering, **K.S.R.M College of Engineering** | Aug 2023

## CERTIFICATIONS

- Machine Learning A-Z: AI, Python & R- In Data Science
- Deep Learning A-Z: Hands-On Artificial Neural Networks
- MLOps: Deploying Machine Learning Models in Production
- Complete Machine Learning and Data Science: Zero to Mastery

**Professional Strengths**
- Strong commitment to work and deadlines
- Quick adaptability to new technologies and environments
- Excellent interpersonal and communication skills