ASHISH SOLANKI

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SUMMARY

AI/ML Engineer specializing in predictive modeling, NLP systems, and generative AI solutions. Demonstrated success in leading projects with TensorFlow, PyTorch, and AWS, achieving efficiency and improvements. Focused on innovative applications across healthcare, finance, and automation sectors.

SKILLS

- AI/ML: TensorFlow, PyTorch, Scikit-learn, NLP (BERT, GPT-3), LLMs, CNNs, RNNs, YOLOv5, GANs, Tableau, Power BI, Deep Learning, Neural Networks, Chatbots, Image Processing, Machine Learning, Generative AI, Agentic AI
- Programming: Python, Bash
- Backend/Cloud: Node.js, Django, AWS (EC2, S3, IAM, Lambda), Docker
- Databases: MySQL, MongoDB
- Leadership: Researcher, Team Management, Incident Response, Project Management
- Data analysis, Software development, Analytical and critical thinking, Strategic planning, Team & Task collaboration

PROJECTS

Treasure Hunt Game (AI-Driven Web Game)
Developed a real-time Flask web game with AI-powered NPCs (scikit-learn MLPClassifier), smart difficulty adjustment, chatbot (NLTK), anti-cheat systems, and Plotly graphics, hosted on PythonAnywhere.

Master Thesis
Swahili Smishing Attack Classification Apr 2025 Developed ML framework with SwahiliBERT, achieving F1-score of 0.96 using NLP and AWS blockchain logging.

Personalized Bedtime Story Generator (Generative AI)
Built Flask app using Generative AI and LLMs for story customization, with React UI and AWS S3 storage.

AI Drone Delivery System (Team Lead)
Led team of 16 at VIT to design AI drone with 98% accuracy in GPS tracking using YOLOv5, TensorFlow Lite, ROS.

EDUCATION

Master's in Computer Science & Engineering, Artificial Intelligence 2019-2025
VIT Bhopal University - Sehore, IN-MP
- **CGPA: 7.44/10**

EXPERIENCE

Team Leader – AI Drone Delivery Project 10/2019 - 08/2022
- Managed team of 16 to develop AI-powered drone achieving 87% accuracy in real-time GPS tracking and obstacle avoidance using YOLOv5, TensorFlow Lite, and ROS.

Machine Learning Researcher – SynergyLabs, Gurgaon 01/2021 - 02/2021
- Developed deep learning classifiers (CNN, RNN) and stock prediction models attaining 85% accuracy using Scikit-learn and Keras.

Full-Stack Developer – Trinity School, Gurgaon
- Built MERN-stack applications with JWT, OAuth 2.0, and CSRF protection, improving system reliability by 20%.
- Designed and implemented RESTful APIs, enabling effective communication between front-end and back-end systems.

AI Research Intern – iNeuron.ai
- Enhanced brain tumor segmentation by 15% using U-Net and GANs with DICOM dataset preprocessing.

CERTIFICATIONS

- AWS Certified Cloud Practitioner – Amazon Web Services
- Automatic Machine Learning with H2O AutoML and Python – Coursera
- Optimize TensorFlow Models For Deployment with TensorRT – Coursera
- HTML, CSS, and Javascript for Web Developers – Coursera
- Linux and Private Cloud Administration on IBM Power Systems Specialization – Red Hat

ACCOMPLISHMENTS AND AWARDS

- Drafted Patent: AI Blood Diagnosis: Developed a cloud-based deep learning system for early disease detection using TensorFlow and AWS Lambda.
- Master Thesis: Classifying Swahili Smishing Attacks for Mobile Money Users: A Machine-Learning Approach
- Research Paper: Medication Revelation Utilizing Neural Network – Springer's International
- Current Project: Currently working on building "Personal Digital Twin" an AI-powered web application that helps users simulate life choices and predict outcomes across multiple domains including career, finances, relationships, health, and education.