SK Salma

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Professional Summary

ComputerScience and AI/ML student with strong skills in ML algorithms, data analysis. Proficient in core CS subjects like DSA, DBMS, OS. Experienced in developing ML, Gen-AI, and deep-learning projects. Seeking AI-focused roles to apply technical skills and build impactful solutions.

Work Experience

Generative AI Intern – SmartBridge (Google Cloud Generative AI Internship) *– July 2025*

- Built an AI-powered email generator using GPT-Neo and Python to automate personalized email drafting, reducing manual writing time by 35–40%.
- Email Generator using GPT-Neo: Integrated GitHub-based version control and implemented context-aware prompt conditioning, cutting deployment errors by 25% and improving response turnaround time by 30%.
- Skills: **Python**, **Machine Learning Algorithms**, **Generative AI (GPT-Neo)**, **GitHub (Version Control)**.

Data Associate L1 Intern – Infotact Solutions (Data Science & ML Internship) *December 2025 – Present*

- Role: Served as a Data Associate L1, cleaning and preprocessing unstructured data and building machine learning models using Python and Scikit-learn.
- IoT Predictive Maintenance: Working on IoT predictive maintenance models using ML algorithms (Logistic Regression, Random Forest, XGBoost) with real-time sensor data and dashboard development.
- Visual Quality Control:Building deep-learning visual quality inspection models using transfer learning (MobileNetV2/ResNet50), with Grad-CAM explainability and deployment-ready pipelines.
- Skills: **Python**, **Machine Learning (XGBoost)**, **Deep Learning (ResNet50)**, **Explainable AI (SHAP, Grad-CAM)**, **Flask API**.

Education

Vellore Institute Of Technology – Andhra Pradesh *2023 - 2027*

B.tech in ComputerScience and Engineering[AI&ML](CGPA: 8.7)

NRI Junior College, AMARAVATHI CAMPUS – Guntur, Andhra Pradesh *2020 - 2023*

Intermediate in MPC(947/1000)

Sresta High School – Guntur, AndhraPradesh *2019 - 2020*

Secondary School Education (591/600)

Volunteering & Leadership

Core & Marketing team – CSIClub

- Conducted many coding contexts and Participated in club activities and initiatives.
- Also contributed in many coding classes to Freshers.

Active involvement – Conquer C

- Active involvement in coding/programming competitions.

Python Programming – PyDAS Python Bootcamp

- Python Programming

Club Member – Entrepreneurship Club

- Wadhwani Foundation Ignite program project "Threads," which developed eco-friendly yarns from sustainable materials like pineapple leaves, nettle, and hemp.

Certifications

Journey to Cloud: Envisioning Your Solution – IBM SkillsBuild

Getting Started with Artificial Intelligence – IBM SkillsBuild

AWS Academy Graduate - Cloud Foundations – Ethnus

AWS Academy Graduate-Cloud Architecting – Ethnus

Skills

Programming Languages: Java, Python
Frontend: HTML, CSS
AI & ML: ML algorithms, Scikit-learn, Pandas, NumPy, Matplotlib, LaTeX, RESTful APIs, PyTorch, Kubernetes
Coding platforms: Litcoder, Leetcode
Productivity Tools: MS Word, PowerPoint, Canva
CS Core: Data Structures & Algorithms, OOPs Concepts, SQL, OS
Soft Skills: Problem Decomposition, Time Management, Critical Thinking

Projects

HEARTDISEASE PREDICTION *Dec, 2024 – Mar, 2025*

- Tools: Python, Scikit-learn, Pandas, NumPy, Matplotlib, LaTeX
- Implementation: Applied preprocessing and performance metrics to effectively handle complex, non-linear medical data patterns.
- Comparative Analysis: Developed a prediction model where Random Forest achieved the highest accuracy of 85%, outperforming KNN (82%), SVM (68%), and Naive Bayes (50%).

Explainable AI *January 2026 – Present*

- Skills: Python, Scikit-learn, XGBoost, SHAP, LIME, Pandas, NumPy, Matplotlib, GitHub.
- Developing a heart-disease prediction model using Random Forest and XGBoost with full ML pipeline.
- Implementing explainable AI (SHAP, LIME) to interpret model predictions and support transparent clinical decision-making.

GenPred-WSI (Breast Cancer Mutation Prediction) *Aug, 2025 – Nov, 2025*

- Tools: Python, TenserFlow, Deep Learning Algorithms
- Model Performance: Achieved 98.5% training accuracy and 97.0% validation accuracy using a CNN and self-attention deep learning system.
- Evaluation: Demonstrated high precision in molecular profiling with an AUC of 0.980 on the ROC Curve and a training loss of 0.05.

Languages

Telugu (Native), English, Hindi, German (Beginner)