Bhargavi B

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Summary — Resourceful and results-driven AI/ML Engineer with nearly 2+ years of experience in developing and deploying privacy-preserving machine learning solutions. Specialized in Federated Learning, Differential Privacy, and Generative Adversarial Networks (Pro-WGAN, StyleGAN, BigGAN) with demonstrated success in secure synthetic data generation for Aadhaar applications and fintech domains.

Skills

Languages	Python, SQL, C Language	**Cloud Platforms and OS**	Linux, Windows, AWS, GCP
ML Frameworks	TensorFlow, PyTorch, Keras, scikit-learn	**Deployment Tools**	GitHub, Docker, Hugging Faces
NLP	GAN Models, CNNs, Diffusion Models		

Experience

CSIR-Fourth Paradigm Institute **Aug 2023 – Mar 2025**
Project Associate 1 (AI ML researcher)

Client: AADHAAR

- Developed scalable AI systems for biometric risk modeling using differential privacy and federated learning to comply with Aadhaar security protocols.
- Designed and implemented scalable ML solutions using frameworks such as TensorFlow, Keras, and PyTorch. Specifically, I employed Convolutional Neural Networks(CNNs) for biometric image generation and fine-tuning.
- Utilized Docker containers for model reproducibility, testing, and scaling across edge devices. Improved biometric data quality by 35% using model finetuning and error estimation.

Adaptability

- This research and development approach, focused on privacy-preserving AI techniques like Differential Privacy and Federated Learning, can be applied to various industries, including:
- Government and Public Sector: Privacy-preserving biometric systems for national identity and social security programs (e.g., Aadhaar).
- Healthcare: Privacy-preserving sharing of medical data across hospitals, using Federated Learning for secure model training without compromising patient privacy.

Comviva Technologies Pvt Ltd **Sept 2022 – Aug 2023**
Product Support Engineer

Client: MoMo MTN App

- Provided backend technical support for the MoMo MTN App (money transfer, bill payment, mobile top-up, and digital wallet).
- Handled backend incident response and anomaly detection in financial transaction environments.
- Used SQL and Grafana to build dashboards that surfaced potential violations and operational risks.
- Managed high-throughput Linux systems with containerized microservices in production.

Adaptability

- This infrastructure setup and the skills acquired can be applied across various industries, including:
- Financial Services: Mobile payments, digital wallets, and banking applications.

Education

Global Academy of Technology, Bengaluru **Jul 2018 – Jul 2022**
Bachelor of Engineering
Electronics and Communication

Certifications

- C Language
- C++
- Java

Projects

AI Healthcare Agent, Self-initiated

- Developed a web-based AI diagnostic tool trained on 4,921 symptom-disease pairs to predict potential illnesses based on user-input symptoms, dynamically adjusting confidence scores to improve diagnostic accuracy with increased symptom specificity.