SUBIN

MACHINE LEARNING ENGINEER

Begur, Bengaluru, Phone: +919037912073

# Profile

Machine Learning Engineer with 3 years of hands-on experience at Infosys, specializing in Generative AI, Deep Learning, and Natural Language Processing (NLP). Demonstrated expertise in building and deploying scalable AI solutions across real-world applications, with a strong foundation in both research- driven model development and enterprise-grade deployment. Proven ability to collaborate across cross- functional teams, ensure Responsible AI practices, and optimize AI systems for performance and scalability.

# Experience

**MACHINE LEARNING ENGINEER | INFOSYS | JAN 2022 – PRESENT**

* . **Professional Experience**
  + Developed and implemented **Generative AI models** using **Python, TensorFlow, and PyTorch**

for text, image, and multimodal generation tasks.

* + Designed and executed ML pipelines aligned with SDLC best practices, including data ingestion, preprocessing, model training, testing, and deployment.
  + Built scalable, real-time inference systems for production environments, ensuring performance optimization and robustness.
  + Collaborated with cross-functional teams to groom and preprocess large and complex datasets for model training and validation.
  + Applied cutting-edge techniques in **NLP** and **Computer Vision** to enhance the quality and creativity of generative outputs.
  + Conducted research and experimentation with advanced architectures (e.g., GANs, VAEs, Transformers) to improve generative model performance.
  + Ensured compliance with **Responsible AI** principles by integrating fairness, explainability, and governance checks throughout the model lifecycle.
  + Regularly tuned hyperparameters and tested multiple model configurations to achieve optimal results.
  + Provided architectural recommendations on DL algorithms, tools, and integration strategies, ensuring alignment with project goals and scalability needs.
  + Monitored post-deployment model performance and drove continuous improvement based on user feedback and model drift insights.
  + Delivered technical guidance and mentorship on AI integration across diverse products and platforms.

# Education

**B. TECH (HOUNOURS) IN MECHANICAL ENGINEERING| TKM COLLEGE OF ENGINEERING, KOLLAM**

# Skills & Abilities

* **Languages & Frameworks**: Python, TensorFlow, PyTorch
* **AI/ML Expertise**: Generative AI, Deep Learning, NLP, Computer Vision
* **Model Lifecycle**: Data Preprocessing, Model Training & Evaluation, Deployment, Monitoring
* **Tools**: Git, Docker, MLflow, Jupyter, AWS (if applicable)
* **Collaboration**: Agile Methodologies, Cross-functional Team Collaboration, SDLC Alignment
* **Soft Skills**: Analytical Thinking, Problem Solving, Technical Communication, Team Leadership

# Activities and Interests

Environmental conservation, art, hiking, travel

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