Shantanu Raghuwanshi  
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**PROFESSIONAL SUMMARY**  
Results-driven Associate Architect with 6+ years of experience designing **end-to-end GenAI and ML solutions on cloud platforms (Azure/AWS)**. Proven expertise in building **secure, scalable systems** from conception to deployment. Adept at leading cross-functional teams to deliver AI-driven business outcomes. Strong background in **cloud architecture, MLOps, and optimizing foundation models**.

**SKILLS**

* **Cloud Platforms:**AWS (EC2, S3, Lambda, IAM), Azure (Databricks, Document Intelligence), Cloud Architecture
* **AI/ML:**Generative AI, LLMs (GPT-4, Llama-2), Fine-tuning, Agentic AI, SageMaker/Bedrock (familiar), PyTorch, MLflow
* **MLOps:**CI/CD Pipelines, Model Monitoring, Drift Detection, Automated Retraining
* **Data Engineering:**Apache Spark, Databricks, Snowflake, Neo4j, Big Data Processing
* **Security:**Data Encryption, Compliance Standards (HIPAA/GDPR implementation)
* **Programming**: Python, SQL, Java, Terraform (IaC)
* **Leadership**: Technical Advisory, Cross-functional Team Management, Client Stakeholder Collaboration

**PROJECT EXPERIENCE**

**Fraud Platform for Payments Processing**

ValueLabs, Hyderabad   
February 2024 – Present  
**Technologies:** Python, SQL, Azure, DataBricks, PySpark, Mlflow, Copilot studio

* **Designed and deployed** secure AI fraud detection system handling 100K+ transactions/day on Azure (transferable to AWS architecture)
* Implemented **MLOps pipeline** with automated drift detection (CI/CD via MLflow) reducing fraud by 35%
* **Architected cloud-native solution** using PySpark/Databricks (parallel: AWS Glue + SageMaker)

**Tax Management System**

ValueLabs, Hyderabad  
September 2023 – February 2024  
**Technologies**: Python, SQL, Azure, FastAPI, GPT-4, Document Intelligence

* **Built end-to-end tax document processing system** with GPT-4 and Azure Document Intelligence.
* **Designed scalable architecture** supporting 10K+ ops/day (99.9% uptime) with automated NER/LLM summarization.

**Conversational AI Chatbot for Insurance Brokers**

ValueLabs, Hyderabad  
June 2023 - September 2023  
**Technologies**: LLM, Python, Django, MS Teams (GraphAPI)

* Developed an agentic AI chatbot that improved broker productivity by 20%, providing instant access to business domain-specific insights with connections to multiple APIs and Teams integration.
* Integrated advanced natural language processing, achieving 95% accuracy in query resolution.

**Conversational AI Chatbot for Health Advisory**

ValueLabs, Hyderabad  
June 2023 - September 2023  
**Technologies**: LLM (LLAMA-2 70B), Neo4j, Python, FastAPI

* DevelopedLlama-2 70B based Agentic AI for healthcare interactions, reducing consultation time by 30%.
* **Engineered knowledge graph** (Neo4j) for medical relationship mapping, ensuring **data privacy compliance**(HIPAA-compliant data handling)**.**
* Acted as technical advisor to clients on GenAI implementation strategies.
* Mentored junior engineers in MLOps best practices.
* Evaluated model alternatives (e.g., SLMs vs LLMs) for cost-performance optimization.

**Customer Retention Model**

ValueLabs, Kuala Lumpur  
May 2022 - May 2023  
**Technologies**: OpenAI GPT-3, Python, SQL, Snowflake

* Built a customer segmentation model that improved retention rates by 25%, contributing to a 15% increase in annual revenue.
* Enabled personalized marketing campaigns by analyzing customer behaviors and preferences.

**Marketing Mix Model**

ValueLabs, Kuala Lumpur  
September 2021 - April 2022  
**Technologies**: Dash, Spark-ML, Python

* Delivered a regression-based budget optimization model, increasing marketing ROI by 20%.
* Provided actionable insights into reallocating budgets across 5 major channels.

**Social Media Sentiment Analysis**

ValueLabs, Kuala Lumpur  
April 2021 - September 2021  
**Technologies**: OpenAI GPT-3, ML

* Conducted sentiment analysis of over 1M social media posts, enhancing product positioning by 15%.
* Identified key competitors’ weaknesses, enabling strategic pivots in marketing campaigns.

**Automation Framework for Operational Efficiency**

ValueLabs, Kuala Lumpur  
October 2019 - March 2021  
**Technologies**: Python, Java, SQL, Linux, Bash

* Designed an automation framework saving 30+ person-hours weekly, streamlining daily operations.
* Reduced error rates in operational tasks by 40% through automated monitoring and reporting.

**Backend API Development for Banking Client**

ValueLabs, Hyderabad  
January 2019 - September 2019  
**Technologies**: Java, SQL, Spring Boot

* Developed secure APIs that enhanced digital banking services for over 1M users.
* Ensured seamless integration with third-party systems, achieving 99.8% reliability.

**EDUCATION**

**Shri Ramdeobaba College of Engineering and Management, Nagpur**

**B.E. - Computer Science and Engineering**  
*August 2015 - May 2019*  
CGPA: 7.9/10