**XYG**

**Summary:**

* 16+ years of professional experience in architecting, developing, and automating AI/ML platforms with a strong focus on MLOps and Python-driven solutions for streamlining model lifecycle management across multi-cloud environments (AWS, Azure, GCP).
* Expert in leveraging GPT, BERT, LLAMA, and other large language models (LLMs) for advanced NLP tasks, including conversational AI, text summarization, and retrieval-augmented generation (RAG), driving innovation and enhancing operational workflows.
* Developed and deployed AI solutions using Python frameworks such as PyTorch, TensorFlow, and Scikit-learn, optimizing models for large-scale production environments.
* Hands-on experience building LLM-based systems to automate complex workflows, integrating Generative AI technologies into enterprise platforms, and improving business processes with AI-driven automation.
* Significant expertise in MLOps, building CI/CD pipelines to support continuous integration, testing, versioning, and deployment of models, including LLM fine-tuning and orchestration.
* Mentored cross-functional AI/ML teams, guiding engineers and data scientists on integrating LLM models and GPT-based architectures, while ensuring compliance with Responsible AI (RUAI) policies.
* Experience with Python libraries and BERT for NLP tasks.
* Used Python with libraries like NLTK, SpaCy, and BERT to preprocess text, develop tokenizers, and build classification models for various NLP applications.
* Cloud expertise with Docker, Kubernetes, and Terraform, automating secure deployment of AI models, including LLMs, across multi-cloud infrastructures.
* Led multiple teams in cross-functional collaboration across business, technology, and operations to implement AI/ML solutions aligned with strategic business goals.
* Significant experience in Machine Learning (ML), AI model lifecycle management (MLOps), Big Data, NLP, and Deep Learning with hands-on involvement in all phases from model development to production deployment.
* Mentored and led teams of AI/ML engineers, data scientists, and software developers to ensure timely delivery of cutting-edge AI/ML solutions, driving both technical and organizational success.
* Proficient in Python, Java, and Scala, with strong experience in building scalable platforms using frameworks like PyTorch, TensorFlow, and MLLib.
* Advanced understanding of ethical AI, ensuring compliance with Responsible AI (RUAI) policies across AI projects, with experience building AI systems that adhere to corporate governance standards.
* Expertise in cloud platforms (AWS, Azure, GCP) and container orchestration (Docker, Kubernetes), automating infrastructure provisioning, and building secure, efficient pipelines for enterprise-wide AI deployments.
* Proven ability to evangelize AI/ML technologies, driving platform adoption across multiple functions such as operations, marketing, legal, compliance, and IT infrastructure.
* Experience in data versioning, model orchestration, and automating infrastructure to support the deployment of AI/ML models at scale.
* Expertise in leading strategic AI initiatives for automation, driving long-term value creation through the deployment of innovative AI solutions.
* Experience in SDLC, Reactive programming, DevOps and Agile development (SCRUM) methodologies.
* Expertise in J2EE Design Patterns such as MVC, Singleton, DAO, Composite view.
* Experience in developing and deploying JEE components on application servers such as WebLogic Server 10.0/11g/12c, Apache Tomcat and IBM WebSphere 7.0/8.0/8.5.
* Experience in User Interaction, Business Analysis, Development, Integration, Documentation, Testing, Deployment, Building, Configuration and Production/Customer Support, Maintenance and Enhancements of both Web and Client/Server Technologies.
* Strong experience in Configuration tools like GITHUB, GIT, CVS, and SVN.

**Technical Skills:**

**Operating Systems:** Linux, UNIX, Windows

**Languages:** Python, Java, Scala, SQL, PL/SQL

**ML/AI Tools:** MLOps, GPT, BERT, LLAMA, RAG, NLP, Feature Engineering, Model Optimization

**Frameworks:** Flask, Django, PyTorch, TensorFlow, Scikit-learn, Hugging Face, Spring

**Big Data Tools:** Hadoop, Spark, Hive

**Cloud Platforms:** AWS (EC2, S3, RDS), GCP (BigQuery, Cloud Storage), Azure (AKS, ML Studio)

**Containerization & Orchestration:** Docker, Kubernetes

**CI/CD Tools:** Jenkins, Terraform, Kubernetes

**Version Control:** GitHub

**Tools & IDEs:** Jupyter, PyCharm, RStudio, IntelliJ

**Education:**

* Bachelor’s in Technology – Computer Science and IT, JNT University – 2003

**Professional Experience:**

**AI/ML Engineer  
Nowalabs LLC, Tampa FL Dec 2023 – Present**

* Developed the vision and executed a scalable AI/ML engineering platform, used by Developed a scalable AI/ML engineering platform supporting over 1,000 engineers, leveraging Python and large language models like GPT, BERT, and LLAMA to streamline the AI model development lifecycle.
* Spearheaded the adoption of Generative AI models in conversational systems, automating customer service workflows, and improving operational efficiency with GPT-based frameworks.
* Led the integration of LLMs into enterprise applications using RAG techniques, optimizing information retrieval and enhancing user experiences in AI-powered platforms.
* Developed a text classification model to classify customer service inquiries into categories, improving response time and resolution accuracy.
* Implemented CI/CD pipelines using Jenkins, Kubernetes, and Terraform, supporting continuous integration and deployment of Python-based LLM models across AWS, Azure, and GCP environments.
* Used in building NLP pipelines for text processing and information extraction in a customer service chatbot project, focusing on user intent detection.
* Knowledge of NLP techniques such as tokenization, stemming.
* Mentored and guided teams in best practices for LLM fine-tuning, training, and deployment, ensuring robust integration with business processes.
* Automated infrastructure provisioning and configuration using Terraform and Kubernetes, enabling secure, consistent deployment of AI models across multi-cloud environments.

**Edgeverve – Bangalore, India Aug 2015 – Nov 2023**

**Lead Architect, AI/ML Platforms**

* Defined the architecture and led the development of enterprise-level AI/ML platforms, enabling the automation of ML pipelines and deployment processes at scale.
* Led the migration from monolithic systems to microservices architecture, improving scalability and operational efficiency across cloud environments such as AWS, GCP, and Azure.
* Orchestrated big data pipelines using Hadoop, Spark, and HBase, integrating data ingestion, transformation, and real-time processing for AI/ML model training and deployment.
* Experienced with NLP Techniques for understanding human language.
* Applied various NLP techniques such as tokenization and lemmatization in projects focused on processing and analyzing large volumes of social media data.
* Developed and deployed REST APIs that supported real-time AI model inference for a variety of business-critical applications, optimizing model integration with enterprise systems.
* Drove the transition to DevOps and MLOps methodologies, leading the implementation of automated CI/CD pipelines that reduced deployment times and increased model reliability.
* Collaborated with senior leadership and Responsible AI teams to ensure all AI/ML deployments were secure, compliant with organizational standards, and aligned with ethical AI practices.
* Evangelized AI technologies across the organization, fostering innovation through AI/ML adoption and demonstrating the impact of AI models on achieving business objectives.

**Infosys – Bangalore, India Sep 2007 – Jul 2015**

**Technical Lead**

* Implemented JSON web tokens mechanism for authentication and authorization security
* Developed dashboard based on Ajax calls with Business Customers Count, Flags, Real-time graphs for Analytical Reporting using Node JS.
* Developing Restful APIs for communication using NodeJS between different banking applications and systems, making it possible to integrate and connect different banking services.
* Created Angular HTTP Client interceptors to add necessary JWT tokens outgoing requests from UI.
* Used the Spring JDBC for data retrieval from the database for various inquiries. Wrote complex SQL queries to retrieve data from the Oracle database.
* Developed, implemented unit test cases and integration test cases
* Use Selenium for creating the web-based test automation suite and perform functional testing.
* Developed JSP Pages for the User Interface.
* Created database tables.
* Developed Servlets for database Updating, Retrievals and Deletions.
* Wrote unit and integration tests to test all the desired functionality using JUnit (TDD), Testing, Mockito.
* Established Continuous Integration (CI) practices and standards in creating apis with Jenkins
* Involved in building and deployment of the application in a Linux environment.
* Deployed application onto JBoss application server in CI environment.
* Documented the external API using enunciate and modified the auto-generated docs with custom CSS to match corporate website and design

**Environments:** J2EE, Spring framework, Hibernate, JSON, AJAX, REST, SOAP, XML, Apache CXF AngularJS, React Js JQuery, JavaScript, Oracle 10g, IBM RAD, WebSphere, Apache Maven, JUnit, HTML, SVN.