PANKAJA AMBALGI

Gen AI/ ML Engineer

✉ pankaja.chhabbi@gmail.com

📍 Beaverton, Oregon

🔗 my LinkedIn

🌐 visit my website

EDUCATION

Master of Science
Information Engineering
University of Applied Sciences, Germany

Bachelor of Engineering
Electronics and Communication
VTU, India

SKILLS

Programming/ Frameworks

- Python
- LangChain, Transformers
- AWS Q, AWS BedRock
- Pandas, NumPy, Scikit-learn, Tensorflow, PyTorch
- Fast API, Django, Flask
- MySQL, Mongo Db
- Matplotlib, Seaborn
- Docker, Kubernetes, Jenkins

CERTIFICATIONS

- AWS Cloud practitioner
- Generative AI with Large Language Models by DeepLearning.AI & Amazon Web Services from Coursera
- Project Manager Professional (PMP)
- Professional Scrum Product Owner (PSPO)

WORK EXPERIENCE

Generative AI Engineer

Projects

📍 Beaverton, OR, US

- Developed a Q&A chat application leveraging Llama2 and Claude LLM models from the AWS Bedrock service. The application is fine-tuned using Retrieval-Augmented Generation (RAG) techniques to maximize the capabilities of the pre-built base models provided by the service.
- Developed and deployed a generative AI chatbot application using AWS Q to streamline data from AWS S3 and WebCrawler sources. AWS Q facilitates secure setup and offers infrastructure support, enabling the integration of multiple data source connectors.
- Created a blog generation API using AWS API Gateway, Lambda functions, and S3. Users provide a topic to the API, which triggers a notebook in the Lambda function to generate the blog. The API stores the resulting PDF document in an S3 bucket for easy access and use.

SDE, ML Engineer

UST Global for client Intel Corporation

📅 May 2022 - current   📍 Hillsboro, OR, US

- Collaborated with product managers to design and implement a system metrics application which aimed at capturing and analyzing test systems data, yielding actionable insights for the business.
- Investigated critical inquiries such as determining the maximum and minimum boot times across various firmware versions, analyzing battery performance, and evaluating the impact of enabled peripherals on system boot performance.
- Improved the management of test systems across diverse geographical locations by recording the system status, enabling comprehensive performance assessment of test systems across different regions.
- Led the end-to-end implementation of the project, orchestrating the seamless transition from data collection phase, sourcing data from test systems to the database, to the refinement and development of trained models aligned with defined use cases.

Cloud Engineer

SKF GmbH

📅 Jun 2019 - Apr 2022   📍 Schweinfurt, Germany

- Developed IoT solutions, encompassing data transfer, device management, and data generation for smart devices. This reduced the user intervention to 30% from complete manual setup.
- Delivered a comprehensive solution IoT Device management, offering centralized monitoring of smart devices across diverse geographical locations, providing a unified platform to track device status. This managed 20 devices located across 7 locations.
- Contributed to the seamless transfer of millions of machine data records to the AWS cloud, facilitating their utilization by analysts for informed business decision-making.
- Ensured secure and reliable data transfer between devices and the AWS cloud, implementing authentication, authorization, and encryption mechanisms.

- ITIL Foundation Certificate in IT service management

ACTIVITIES

- Collaborating with Data Scientists and ML Engineers around the world for Omdena Projects.
- Led the girls as the school girls captain for a year.
- Master of ceremony for two consecutive years at the cultural fest during my Master of Science.

PROJECTS

Personal projects

- [kaggle](#)

- Designed and implemented robust architectures utilizing AWS IoT services, AWS development tools and deployed containerized applications on the Edge devices(NAS) using Docker containers.

Software Developer

Acomodeo GmbH

📅 Apr 2018 - Apr 2019   📍 Frankfurt, Germany

- Integrated 10K inventories into one of the major back-end systems. I created a micro-service using the Spring Boot framework to communicate with the client using the Retrofit library.
- Engineered a webhook service enabling customer notification subscriptions, facilitating real-time updates on inventory events. Implemented a robust message broker system using RabbitMQ to handle the broad cast of messages.

Data Analyst, Team Lead

NTT Data Pvt. Ltd

📅 Sep 2011 - Jan 2016   📍 Bangalore, India and Hatfield, UK

- Gathered insights and comprehensive development of tariff plans for pay monthly and pay as you go systems using advanced SQL queries and procedures in addition to telecom domain expertise.
- Orchestrated the configuration adjustments necessary to introduce and activate new tariff and price plans, driven by the analytical findings. Reduced the implementation time from 5 days to 3 hours by automating the implementation process using shell scripts, this streamlined updating of tens of thousands of rows.
- Ensured accuracy of 100% of generated Call Detail records by conducting thorough testing of the implementation by comparing pre and post data values in the affected tables.
- Led and coordinated a team of 6 offshore members, overseeing the implementation of Rater (Pay Monthly) and Nexus (Pay as you Go) requirements and met sprint objectives within designated timelines.