

Tejendra Kumar Pareek

AREAS OF EXPERTISE

**Certified Aws
ML Engineer
Associate**
(04/2025 -
04/2028)

**Certified Azure
Administrator
Associate – 104**

**Certified Azure
AI Engineer
Associate – AI-
102**

Python &

Generative Ai ,

LangChain,

LlamaIndex,

FastApi, Django

Aws, Sql,

MVC Frameworks

PERSONAL DETAILS

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PERSONAL SUMMARY

Project Lead – 11 years of Software development experience, Expertise in creating intelligent systems using advanced AI frameworks, ML and backend technologies. Proven track record of delivering cutting-edge AI-powered applications for multiple clients.

WORK EXPERIENCE

Persistent Systems – Pune.

Project Lead 18th July24 - Present.

NTT DATA Business Solutions –Bangalore.

Consultant 5th October 23 – 17 July 24.

Wipro Technologies –Bangalore.

Sr. Engineer 27 March 2018 - 31st August 23.

PenguinApps –Mumbai.

Software Developer 16 May 2017 - 16 March 2018.

Vastu Housing Finance Corporatoion – Mumbai.

WEB Developer 12 Dec. 2016 - 15 May 2017.

Interskale Digital Marketing – Mumbai.

WEB Developer 25 June2015 - 16 September 2016.

Honey Computing Services – Pune.

Trainee Software Engineer 2nd June2014 – 20 June 2015 .

DUTIES

- Design and develop innovative AI/Gen-AI solutions tailored to various industry verticals, including Banking, Financial Services, Insurance (BFSI), Energy & Utilities (EnU), Life Sciences, and Manufacturing.
- Lead the end-to-end AI project lifecycle, from conception through deployment, ensuring solutions are aligned with best practices and Org. standard
- Design and implement RESTful API's using Python Frameworks.
- Participating in all phases of development from requirements to deployment and monitoring on the production.
- Work on development related Jira's assigned by onsite team
- Automation of Application release and deployment across multiple servers.

KEY SKILLS

- **Technology**–Python, Gen AI, RAG, LLM, Machine Learning, Deep Learning, Agentic AI, VectorDB, Prompt Engineering, NodeJs.
- **Freamwork** – *LangChain, LlamaIndex, FastAPI , RAGAS, Django, Flask, Express.js, Laravel, Codeigniter.*
- **Frontend** : – AngularJs, Java script, JQuery , Html, CSS
- **Cloud & Repository** – AWS and Azure, Gcp with Docker, Jenkins, Terraform, Kubernetes, GIT, Bitbucket.

ACADEMIC QUALIFICATIONS

Master in Computer Application(MCA)

Pacific University Udaipur 2011- 2014

Project Experience :-

Project#1

- **Project Name** : **GenAI Developer Hub - Playground**
- **Client** : **Charles Schwab**
- **Duration** : **August - 2024 to Present**
- **Technologies** : **Python, LangChain , RAG , FastAPI, CromaDB , AWS Bedrock**
- **Role** : **Gen AI Lead Engineer.**
- **Team Size** : **5-6**

Description:

GenAi Developer Hub is a platform design and addressing several common challenges encountered in developing and managing GenAI applications powered by Llm and multi model large model. Provisioning access to individual models, cost control, sharing capacity, adapting code, acrossing providers. key management, app management, user management and evaluation framework.

Responsibilities:

- Design, prototype, and architect scalable AI and Platform solutions using LLMs models, and RAG pipelines to solve business challenges in the products and services operations.
- Evaluate and select appropriate AI technologies, frameworks, and tools to optimize performance and scalability.
- Establish high quality APIs in a short time frame.
- Create and deliver demos on the fly to showcase capabilities and solutions.

Project#2

- **Project Name** : **Retails Knowledge Assist**
- **Client** : **SAP Labs**
- **Duration** : **Oct - 2023 to Present**
- **Technologies** : **Python, LangChain , FastAPI, RAG , CromaDB , Azure**
- **Role** : **Gen AI Lead Engineer.**
- **Team Size** : **5-6**

Description:

Retail knowledge assist provides answers to user agent's questions based on information in Knowledge center provide. Retails Knowledge Assist synthesizes that information with the ongoing conversation and available knowledge center to give a more relevant and timely answer to user.

Responsibilities:

- Provides technical direction to teams on architecting, designing, building and deploying AI Based solution for enterprise applications.
- Design, implement, and maintain robust AI-Gen AI (RAG) pipelines to evaluation, deployment, and monitoring.

- Provide technical guidance and mentorship to junior team members, ensuring that they are equipped with the skills and knowledge needed to deliver high-quality solutions.
- Design and develop prompts for various applications, including text generation, translation, question answering, and creative writing.
- Handling client calls and providing the daily status updates to the client.

Project#3

- **Project Name** : **Market Research Assistant**
- **Client** : **Thomson Reuters**
- **Duration** : **Feb - 2023 to Aug. 23**
- **Technologies** : **Python, LlamaIndex, RAG, CromaDB, FastAPI, Azure OpenAI.**
- **Role** : **Gen AI Lead Engineer.**
- **Team Size** : **5-6**

Description:

Market Research Assistant platform that's focused on providing its users with competitive intelligence. AI-powered analysis engine sorts through competitor metrics and sends automatic alerts with relevant information so that analysis and marketing teams can work more efficient.

Responsibilities:

- Develop, construct, test, and maintain sophisticated datasets and benchmarking systems for LLMs and generative AI tasks.
- Handling development tasks and assigning task to team members and helping them in the development related tasks.
- Handling client calls and providing the daily status updates to the client.
- Establish high quality APIs in a short time frame.
- Developed the application using LlamaIndex and RAG , which includes python code.

Project#4

- **Project Name** : **Claims Forecasting**
- **Client** : **Cigna Health**
- **Duration** : **June - 2022 to Jan – 2023**
- **Technologies** : **Python, Flask, Pandas, NumPy, Sci-kit learn, ML algorithms**
- **Role** : **Python Tech Lead.**

Description : Claims Forecasting Built predictive models for claims severity, enhancing the accuracy of reserving. Implemented a customer segmentation strategy based on insurance usage patterns, resulting in targeted marketing campaigns. Conducted EDA on large-scale policy holder data, identifying key risk factors and influencing underwriting guidelines. Developed and deployed machine learning models for claims forecasting, optimizing resource allocation. Assisted in analyzing telematics data to enhance usage-based insurance pricing models.

Responsibilities:

- Provides technical direction to teams on architecting, designing, building and deploying ML Based solution for enterprise applications.

- Collaborated with actuaries to validate and refine pricing models based on real-time claims data, claims Fraud Detection using Machine Learning.
- Created a binary classification model to identify fraudulent claims, achieving a precision of 89%.
- Utilized ensemble techniques like Random Forest and Gradient Boosting for robust performance, Predictive Modeling for Claim Severity.
- Developed a linear regression model to predict claim severity based on historical data.
- Feature selection and transformation were performed to improve model accuracy.
- Integrated the model into the claims processing workflow for more accurate reserving.

Project#5

- **Project Name** : **LTS - Dataloader**
- **Client** : **HSBC**
- **Duration** : **June - 2022 to Jan – 2023 OCT- 2021 to May-2022**
- **Tools & Technologies** : **Python, aws, sql.**
- **Role** : **Python Tech Lead.**

Description:

LTS – Dataloader is middle platform get data from database and get some data from csv file, filter some data insert into aws rds and migrate some csv data on aws S3.

Responsibilities:

- Handling development tasks and assigning task to team members and helping them in the development related tasks.
- Design and implement code in core python, deploy the code on AWS
- Designing, developing, testing, and troubleshooting of the software.

Project#6

- **Project Name** : **Loan Operating System**
- **Client** : **Icici Bank**
- **Duration** : **April - 2020 to Sep - 2021**
- **Tools & Technologies** : **Python - Django, Aws, Postgresql.**
- **Role** : **Python Developer.**
- **Team Size** : **4**

Description:

Developed RESTful APIs for create digital partner, loan application, check plan, send and get data from decision engine, loan approve and reject, loan sanction, upload KYC file and Esign.

Responsibilities:

- Developed the applications using Django Framework, which includes Python code.
- Involved in Customer information module.
- Involved in Customer Complaints information module.
- Developed the Customer Complaints application using Django Framework, which includes python code.
- Developed the backend codes using python.

Project#7

- **Project Name** : **Financial System Exposure**
- **Client** : **Icici Bank**
- **Duration** : **July - 2019 to Feb - 2020**
- **Tools & Technologies** : **Python, Pandas, Matplotlib, Aws, Postgresql.**
- **Role** : **Python Developer.**
- **Team Size** : **2**

Description – Built superior analytical reports and dashboard, Creating data visualizations to effectively convey findings, Data cleansing and standardization (Deduplication, garbage sanitization), Data manipulation to uncover trends and insights (Sub-setting, Pivoting, Summarization, Sorting), Create templates for data manipulation tasks.

Responsibilities:

- Design, build and maintain high performance, reusable and reliable python code.
- Involved in Customer information module.
- Involved in Customer Complaints information module.
- Developed the backend codes using python.

Project#8

- **Project Name** : **Commercial Paper**
- **Client** : **Icici Bank**
- **Duration** : **April - 2018 to June - 2019**
- **Tools & Technologies** : **Python, Django, DRF, Aws, Postgresql.**
- **Role** : **Python Developer.**
- **Team Size** : **5**

Description:

Developed RESTful APIs for India's first online Commercial Paper bidding platform owned by ICICI Bank Ltd. where Corporate firms and money lenders collaborate with each other. Build Commercial Paper auction data scrapper for Data Scientist teams to analyze and predict Interest Rate via providing relative data to bidder and auctioneer.

Responsibilities:

- Developed the applications using Django Rest Framework, which includes Python code.
- Involved in Customer information module.
- Involved in Customer Complaints information module.
- Developed the backend codes using python

Project#9

- **Project Name** : **Docsmart (<https://demo.docsmart.in/>)**
- **Tools & Technologies** : **Node.js, Express.js, MongoDB, Aws**
- **Role** : **Sr. Developer**

Description:

Medical Solution Application - Header Search, NearBy, Filter, Registration Part, Search Result, Filter as per result, Google Map, API for search result for android, Global Search, Book appointment for doctor, Ambulance booking.

Project#10

- **Project Name** : Pulse (<http://pulse.vastucorp.com:9090>)
- **Tools & Technologies** : Python – Django, Postgresql, Aws
- **Role** : Sr. Developer

Description:

Pulse is a ERP Application created Quality Check Module, Email Reports, Liabilities, Timeline View-Attendance, Disbursement Report, Web Services – Register, Login, Data Sync(offline) , Notification. Etc.

Project#11

- **Project Name** : Lead Management Service
- **Tools & Technologies** : Php, MySql.
- **Role** : jr. Developer

Description:

LMS is a Web Application created lead quality report, utmfilter report, login report, pipeline report, message send by API etc worked at User And Admin Side Soap and Rest Web services.