ARUN SINGH

PROFESSIONAL SUMMARY

As a seasoned technical specialist with 19 years of experience, I have worked in the ERS team as a Data Scientist and Business Analyst. I have a strong background in leveraging Generative AI, AIML, LLM, Classification, regression, Anomaly detection, sentiment analysis, Time series forecasting, ETL, Python development, Docker, Kubernetes, and GIT. I am proficient in data science libraries such as scikit-learn, Pandas, NumPy, and Matplotlib. Additionally, I have expertise in internal process automation and are critical for on-site production and development workloads. My experience enables to identify new business opportunities and propose solutions for various use cases based on data types.

EXPERIENCE

Technical Architect, 12/2021 - Current
HCL Technologies - Bangalore, KARNATAKA
- Genai-like models (Openai, Gemini) used for various development use cases:
  - ➢ Code Summarization
  - ➢ Code Clone Detection
  - ➢ Code Generation
  - ➢ Unit Test Case Generation
  - ➢ Change Impact Analysis
- Test case generation, grouping, optimization, and duplicate defect detection using Genai-like models
- Identifying business opportunities and creating Proof of Concepts (POCs) for clients
- Implemented LLM testing with Fiddler auditor and generated FAQs
- Implemented MLops in Mlflow for in-house applications
- Implemented deep checks for data integrity, train-test validation, and model evaluation
- Working on AION (in-house ML tool) for feature enhancement
- Demonstrated various use cases and increased business for HCL departments
- Assisted internal teams in identifying ML use cases and business opportunities
- Developed testing mechanisms for LLM models
- Deployed deep checks library to evaluate ML model performance before production
- Analyzed promotion data with sentiment analysis for HR team
- Identified abnormal usage for Azure billing using DBscan
- Presented document summarization using LLM models to internal clients
- POC for Google team to detect duplicate defects in Android release
- Productivity forecasting for QA engineers on product and project levels
- Xapp deployment with anomaly detection for Meta
- QnA Generator use case presentation
- Helped clients identify abnormalities in core KPIs and deployed explainability tools for classification and time series data analysis
- Demonstrated technical skills in PostgreSQL, Pytest-bdd, Python, and Azure Data Factory
- Consumed data from old finance static API and ingested it into a data warehouse staging layer in PostgreSQL.

SR Manager,Python Developer, Automation Lead, Devops Engineer, Delivery Manager And/or Project Manager, 11/2013 - 12/2021
Huawei Telecom India Pvt. Ltd - Bangalore

CONTACT

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CORE QUALIFICATIONS

- LLM
- Openai
- Gemini
- Prompt Engineering
- PostgreSQL
- ETL
- GUI
- Linux
- MySQL
- Python
- Pandas
- Docker
- GIT
- Amazon Web Services (Aws)
- Azure Devops
- Confluent Kafka (beginner)
- Pytest-bdd
- Scikit Learning
- kafka

- Hands on experience working with AWS
- Prepare the various complex validation scripts for NRM (network resource Management) data migration which cannot be handled manually
- Develop the ETL in Python using corresponding libraries like pandas, Numpy, XmlParser etc
- Working on ETL in python, Pandas data frame from XML and CSV processing
- Expertise in automating business scenario to increase productivity and efficiency of RF engineering team
- Hands on experience in Agile Mythology and expertise in implementing to automation team for better efficiency and easy tracking of tasks
- Developed a tool/framework using Python to automate different department's business scenarios
- Worked as an "automation & domain expert" to increase the efficiency by using automation and/or resolve issues at program level project
- Used different technologies/libraries in Python like - Pandas, Matplotlib and TKinter
- Hands on experience in integrating Python tool with MySQL to reuse data in future and develop business patterns
- Expertise in gathering business requirements and transforming them to technical requirements for developers
- Managing the defects using JIRA and deciding/maintaining the priority for same
- Project Name - Huawei internal platform OWS, Scripting for file handling, ETL and rule development, Automate the Manual complex task as per business logic through Python
- Deliver 10 ETL using Python, Pandas, XML parser
- Follow agile flow with Requirement Analysis, Development, Peer review, testing for all +ve and -ve cases Professional Experience - Huawei Technologies Project Name - Internal Automation Drive.

Sr Software Engineer, 07/2008 - 11/2013
ZTE Telecom India Pvt Ltd - Gurgaon
- Developed offline tools for KPI monitoring using python and MySQL
- Developed and configured various dashboard, custom Reports and Report folders for different user profiles based on need in organization.

Sr RF Engineer, 09/2006 - 07/2008
Alcatel-lucent - Hyderabad
- Daily performance monitoring which mainly included monitoring and troubleshooting high Drop Call Rate, Established Call Failure Rate for Origination and Termination, RF Failure Rate for Origination and Termination, Origination/Termination Blocking Rates, high SHO Percentage per sector carrier and Semi SHO failure rate and finished RF ATP

RF Testing Engineer, 06/2005 - 09/2006
Wayforward Telecom Solutions - Chandigarh
- GSM RF Candidate site survey and approval from Customer.
- Drive test for network optimization
- Offering A/T for new sites as well as swap sites, drive pre/post and shows the coverage according to the predication map.
- Analyzing, troubleshooting & solving Radio Network Problems.
- LOS transmission survey for highway link and city link

ACHIEVEMENTS
- Got appreciation for automating complex migration verification from UK client in 2020.
- Best knowledge sharing contributor in Huawei
- Best Team Manager employee choice award in 2019

EDUCATION

Education	University	Specialization	Passing Year
BTech	JSS Academy of Technical Education UPTU	Electronics and Instrumentation	2005

HOBIES

Long distance Running, playing volleyball, already completed several ultramarathons.