

BAYANA ANIRUDH

Vijayawada, Andhra Pradesh

☎ +91 8977123768 ✉ anirudh.bayana@gmail.com 🌐 <https://www.linkedin.com/in/anirudh-bayana-a9623519b/>

Professional Summary

Software engineer with 2+ years of expertise in ML deployments, data science, data analysis and Python development. Competent in SQL, REST APIs, and Cloud, and efficient in developing and refining backend systems. Strong foundation in cross-functional cooperation, database performance improvement, and automation to provide creative solutions. Looking for work in ML engineering, data analysis and data science .

Education

A. A. N. M. & V. V. R. S. R. Polytechnic

Diploma in Electronics and Communication Engineering

Aug. 2014 – June 2017

Gudlavalleru, Andhra Pradesh

NRI Institute of Technology

Bachelor of Technology: Electronics and Communication Engineering

July 2018 – July 2022

Vijayawada, Andhra Pradesh

Experience

Sainfra

S&T Engineer

Jan 2025 – Present

Penukonda, India

- Architected and Led projects to build and support data pipelines including data collection to integration and ensured compliance with regulations and organizational standards
- Streamlined archiving and reporting for workflows and test results, making it efficient to track processes and pass audits
- Identified and fixed data related errors and system issues, cutting downtime by 25% by performing root cause analysis
- collaborated with stakeholders and developers to match data workflows with business goals, resulting in time savings and fewer mistakes.
- cleaned data, identified trends, and transformed data into meaningful insights using programs like Python, SQL, and Excel.

Skillo Solutions Pvt. Ltd

Python Developer

May 2024 – Sep 2024

Hyderabad, India

- Executed backend tasks utilizing Python for data extraction, transformation and integration.
- worked with front-end teams to design features using Angular and automated data pipelines.
- Enhanced database efficiency and code management using Git version control.

Nacstergen AI

Software Engineer

Oct 2022 – Feb 2024

- Automated data workflows and validations using Python (Pandas, NumPy), cutting report generation time from 6 hours to 30 minutes.
- Created REST APIs with Flask and Fast API to deliver processed data for dashboards, enabling real-time insights.
- Migrated manual Excel reporting to Python scripts, reducing errors by 25%.
- Collaborated with data engineering teams to clean datasets and validate accuracy for machine learning pipelines.

Freelance Work

Software Architect

Dec 2021 – Jan 2022

Vijayawada, India

- Performed data aggregations and data preparation on multiple CSV files using Python and JSON for daily, weekly, and yearly intervals.
- Improved flexibility and integration into banking and e-commerce websites.

RSMIPL

Technician - Production

Jun 2017 – Jul 2018

Sri City, India

- Developed and Fine Tuned machine learning models to predict production line quality metrics and optimize manufacturing output.
- Used statistical analysis and Python to find patterns in production data, implemented predictive maintenance solution that improved operational efficiency and reduced downtime by 60%.

Projects

Data Processing Automation in Real Estate Application | *Apache Airflow, SQL*

- Designed and Developed data pipelines to handle 400K+ property records, improved data accuracy by 35%.
- Utilized parallel execution to optimize batch jobs, resulting in a 40% reduction in processing time.
- Used Apache Airflow for automating monitoring and scheduling.

Data Pipelines on IoT data | *Kafka, MySQL, Redis*

- Implemented an event streaming system, ingesting 1M+ IoT event records daily with Kafka and MySQL.
- Improved data ingestion and transformation of real time data, improving availability speed by 50%.
- Engineered Redis caching features, resulting in a 30% reduction in API response time.

Healthcare Data Aggregation | *Big Data, SQL, Performance Optimization*

- Streamlined the process with 2TB+ health records by implementing data pipeline that reduced query performance bottlenecks by 60%.

AI-based Defect Identification | *TensorFlow, OpenCV, REST API*

- Implemented and fine tuned computer vision defect identification models with OpenCV and TensorFlow, improved accuracy by up to 45%.
- Streamlined data storage between edge devices and cloud using REST APIs, leading to a 30% improvement in processing time.
- Deployed real time error dashboard monitoring using Angular and TypeScript.

Analytics on Manufacturing platform | *Statistical Analysis, Python*

- Engineered data pipelines that analyzed production logs for over 400K entries, improving efficiency by 27%.
- Streamlined data handling and processing with Excel and MS Access, reducing manual errors by 42%.

Technical Skills

Analytics & BI: Statistical Modeling, Exploratory Data Analysis, Data pipelines and integrations, Predictive Analytics, KPI Tracking, A/B Testing

Data Visualization: Power BI, Tableau

Programming & Scripting: R Python (Pandas, Numpy, Sk-Learn, Tensorflow) , SQL

Databases & Data Management: MySQL, SQL Server, Data Modeling, Database Management

Tools & Technologies : Spyder, VS code, AZURE ML Services, Docker,Git AWS EC2, REST API, FastAPI, Crontab

Achievements and Certifications

- Completed the Generative AI Learning Path Certification by Google, demonstrating proficiency in transformer architecture, prompt engineering, and the development and deployment of generative AI projects.