Krusha Parikh

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LinkedIn   GitHub   Portfolio

PROFESSIONAL SUMMARY

Data science and applied machine learning–focused Computer Engineering student with hands-on experience in data analytics, predictive modeling, and intelligent systems. Strong background in building end-to-end ML workflows, including data preprocessing, feature engineering, model training, evaluation, and deployment support. Research-inclined, with interest in interpretable modeling, experimentation, and real-world decision systems.

CORE TECHNICAL SKILLS

Python, R, SQL, Pandas, NumPy, Data Wrangling, Statistical Analysis, Scikit-learn, Supervised & Unsupervised Learning, Classification, Regression, NLP, Feature Engineering, Model Evaluation, Error Analysis, Predictive Modeling, Multivariate Forecasting, Time-Series Basics, Transformer & GRU Exposure, Matplotlib, Seaborn, Power BI, Tableau, MySQL, PostgreSQL, MongoDB, FastAPI, REST APIs, Git, GitHub, Jupyter, Google Colab, Docker (Basics), AWS, Microsoft Azure

SELECTED MODELING & ANALYTICS STRENGTHS

- Feature engineering, noise reduction, and scalable data preprocessing pipelines
- Multivariate forecasting, trend modeling, and predictive systems
- Model benchmarking, validation strategies, and performance tuning
- Translating raw datasets into decision-oriented analytical insights
- Research-driven experimentation, evaluation, and technical documentation

EDUCATION

Bachelor of Engineering in Computer Engineering   2023 – 2026
Indus University: Focus: Data Science, Machine Learning, Secure Systems, Software Engineering

Diploma in Computer Engineering   2020 – 2023
Gujarat Technological University: CGPA: 9.37

DATA SCIENCE, APPLIED ML & RESEARCH PROJECTS

AquaAI: Predictive Modeling for Data Center Water Optimization (Research Project)
Python, Pandas, Scikit-learn, Transformer-GRU, Multivariate Forecasting

- Constructed predictive models to forecast cooling water demand using multivariate sensor datasets.
- Processed and engineered 50,000+ time-series records using normalization, missing-value handling, and noise filtering.
- Benchmarked regression approaches against Transformer–GRU architectures to examine temporal learning behavior.
- Assessed performance using MAE and RMSE metrics and strengthened long-horizon forecast stability through feature refinement.
- Produced analytical outputs supporting sustainability optimization and operational planning.

AI Lead Generator: Automated Data Extraction and Analytics System
Python, Playwright, Apify, FastAPI, Data Pipelines

- Engineered automated pipelines to scrape, clean, and structure large lead datasets from dynamic web sources.
- Standardized and validated multiple datasets to reduce redundancy and enhance analytical usability.
- Implemented API-based access layers enabling structured data delivery, reporting, and dashboard integration.

Conversational Chatbot for Institutions: NLP System (Final Diploma Project)
Python, NLP, Scikit-learn, Neural Networks

- Built an NLP-driven chatbot to classify and respond to institutional queries.
- Designed preprocessing pipelines including tokenization, vectorization, and intent classification modeling.
- Conducted iterative evaluation cycles to increase response accuracy and system robustness.

Smart Civic Management System: Predictive Analytics Module
Python, Data Analysis, Trend Modeling

- Examined structured municipal datasets containing service and complaint records.
- Created analytical workflows to study trends, volumes, and operational patterns.
- Generated visualization-ready datasets supporting planning and forecasting use cases.

INTERNSHIP & PRACTICAL EXPERIENCE

Data Analysis Intern: Comprehensive Up-Skilling Program, Indus University   2023

- Conducted exploratory data analysis on 6+ structured datasets using Python, Excel, and SQL.
- Cleaned, transformed, and validated datasets containing 10,000+ records for reporting use.
- Created 5+ interactive dashboards and analytical reports using Power BI and Tableau.
- Presented weekly analytical summaries translating raw data into actionable insights.

Web & Systems Intern: MaheshSuchit Immigration Pvt. Ltd.   2024 − 2025

- Supported system-level projects involving structured data handling, backend workflows, and automation features.
- Contributed to internal modules improving data pipelines, processing logic, and operational dashboards.
- Participated in testing, debugging, and documentation of data-driven system components.

LEADERSHIP & ACTIVITIES

Technical Head: Indus Student Activity Cell (Instincts 2025)
Directed technical teams, structured development workflows, supervised applied project delivery, and coordinated multi-disciplinary contributors.

Volunteer: Vibrant Gujarat Global Summit 2024
Supported coordination workflows, large-scale operations, and on-ground technical assistance.

CERTIFICATIONS & RECOGNITION

Internship Program in Comprehensive Up-Skilling (Data Analysis Track)
Technical Lead: Indus Student Activity Cell, Indus University
SSIRF 2022: Student Start-Up Innovation & Research Festival
Vibrant Gujarat Global Summit 2024: Certificate of Appreciation