Shariq Ahmad Kachoo

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SUMMARY

Data Scientist with experience in machine learning, statistical modeling, experimentation, and analytical product development. Skilled in end-to-end ML workflows, including data preprocessing, feature engineering, model training, evaluation, deployment, and monitoring. Strong background in Python, SQL, and cloud-ready deployment frameworks. Adept at translating business problems into data-driven solutions and delivering measurable impact.

Education

Amritsar Group of Colleges, Amritsar, Punjab

- **Bachelor of Technology** (B.Tech) | July 2019 - July 2023

Skills

- **Languages & Tools:** Python, SQL, C/C++, Scikit-learn, TensorFlow, PyTorch, Flask, Streamlit
- **Analytics & ML:** Regression, Classification, Cross-Validation, SMOTE, Feature Engineering, A/B Testing, Hypothesis Testing, Experimentation, EDA, KPI Tracking, Data Pipelines, Automation
- **Visualization:** Power BI, Tableau, Matplotlib, Seaborn

PROFESSIONAL EXPERIENCE

Machine Learning Intern (Corizo Edutech, Delhi) Jan '23 - May '23

- Developed supervised ML models using Scikit-learn, TensorFlow, and PyTorch.
- Built scalable preprocessing pipelines and performed extensive EDA using Python and SQL.
- Conducted model validation through cross-validation, metrics analysis, and experiments.
- Deployed ML models using Flask, FastAPI, and Streamlit for real-time predictions.
- Collaborated on integrating ML models into production-ready applications.

Python Trainee (Sebiz InfoTech, Chandigarh) July '22 - Aug ‘22

- Developed automation scripts and analytical utilities using Python.
- Strengthened understanding of OOP, data structures, debugging, and clean code practices.
- Worked on data manipulation using Pandas and NumPy and visualization using Matplotlib.
- Practiced version control using Git & GitHub; explored REST APIs, MySQL, and Flask.

Project Highlights

Birth Weight Predictor | Python, Scikit-learn, Pandas, Flask

(Live Demo | GitHub Repository)

- Built predictive regression models with engineered features to estimate newborn birth weight.
- Reduced MAE by 12% through hyperparameter tuning and iterative experimentation.
- Deployed a Flask-based application for interactive predictions and data visualizations.

Bangalore House Price Predictor | ML Web App | Python, Scikit-Learn, Flask, HTML, CSS
(Live Demo | GitHub Repository)

- Processed 13k+ real-estate records, engineered features, and achieved 85% prediction accuracy.
- Designed a REST API with Flask and deployed the model on Render using Nginx & Gunicorn.
- Implemented modular ML pipelines for preprocessing, model loading, and inference.

Customer Churn Prediction |ML Web App | Python, Scikit-Learn, Pandas, NumPy, Streamlit
(Live Demo | GitHub Repository)

- Modeled telecom customer churn using 7,043 samples and 19 features.
- Applied SMOTE for class balance and evaluated multiple classifiers (Random Forest, XGBoost).
- Built a user-friendly Streamlit interface enabling real-time churn probability insights.