

Akshay Shetty

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Summary

Data Scientist and AI/ML Engineer with hands-on experience in machine learning, deep learning, statistical modeling, and data analysis through internships and real-world projects. Skilled in building end-to-end ML pipelines, optimizing models, and delivering actionable insights across healthcare, e-commerce, and marketing domains. Strong in Python, SQL, and Power BI with practical experience in deploying ML solutions. Seeking a Data Scientist / AI-ML Engineer role to apply modeling and analytical skills to real-world applications.

Skills

- **Programming:** Python, SQL, Excel
- **Machine Learning:** Regression, Classification, Clustering, Ensemble Models, XGBoost, Random Forest, SVM, KNN, PCA, Feature Engineering, Model Optimization, Evaluation (Accuracy, F1, Recall, Precision, ROC-AUC, RMSE)
- **AI & Deep Learning:** Neural Networks, CNNs, Transfer Learning, LLM Concepts, GenAI Fundamentals
- **Analytics & Statistics:** EDA, Hypothesis Testing, A/B Testing, RFM Analysis, Statistical Modeling
- **Data Visualization:** Power BI, Matplotlib, Seaborn
- **Tools & Platforms:** MySQL, Git/GitHub, Streamlit, Jupyter Notebook, Google Colab, VS Code
- **Soft Skills:** Problem Solving, Analytical Thinking, Communication, Team Collaboration

Experience

Learnbay

Sep 2024 – Sep 2025

Data Science Intern

Bengaluru (Remote)

- Developed and deployed supervised and unsupervised ML models across 5+ industry projects, improving accuracy by up to 20% through advanced feature engineering.
- Performed EDA and preprocessing on datasets (10K–500K rows), reducing processing time by 30–40%.
- Built predictive models achieving up to 92% accuracy using ensemble techniques (RF, XGBoost, Voting Classifier).
- Created interactive Power BI dashboards for healthcare, retail, and finance, improving decision-making.
- Designed end-to-end ML workflows including ingestion, preparation, hyperparameter tuning, evaluation, and deployment.

Projects

Customer Segmentation & Personalized Marketing | *Python, Clustering, PCA, Power BI*

Sep 2025 – Oct 2025

- Analyzed 500K+ e-commerce records and engineered RFM and behavioral features.
- Built K-Means clustering (k=4) validated using Silhouette Score, improving segmentation accuracy by 18%.
- Reduced dimensionality by 42% using PCA, improving training speed and interpretability.
- Built a multi-page Power BI dashboard improving marketing efficiency predictions by 15%.

Marketing Campaign Analysis | *SQL, Power BI*

Dec 2024 – Jan 2025

- Processed and analyzed 50K+ customer & campaign records, reducing SQL retrieval time by 40%.
- Evaluated CTR, conversions, sentiment, and ROI, identifying segments with projected 12% higher engagement.
- Conducted geographic & time-series analysis to uncover seasonal and demographic patterns.
- Built an interactive Power BI report improving visibility into campaign performance.

Chronic Kidney Disease Prediction | *ML Classification, Streamlit*

Aug 2025 – Sep 2025

- Cleaned and processed 400+ clinical records, improving consistency via missing-value and outlier handling.
- Trained LR, SVM, RF, XGBoost, KNN, and ensemble models; achieved 95% accuracy and 98% recall with a Voting Classifier.
- Built a Streamlit app enabling real-time CKD prediction for healthcare users.
- Improved model explainability using feature importance and SHAP insights.

Achievements

Smart India Hackathon 2025 – “Sanchari Saathi”

- Designed a commuter system integrating GPS-based live tracking and crowd-density prediction.
- Ranked Top 45 out of 150+ teams in the internal innovation round.

SAP Hackfest 2025 – “Sahaaya”

- Proposed NLP-based legal assistance features and SOS alert mechanisms for marginalized communities.
- Developed an AI chatbot prototype for simplifying legal queries.

Education

Mangalore Institute of Technology & Engineering <i>B.E., Computer Science & Engineering</i>	2022 – 2026 <i>CGPA: 8.25</i>
Rotary PU College, Moodbidri <i>Senior Secondary (12th)</i>	2020 – 2022 <i>Percentage: 92.67</i>
St. Thomas English Medium High School <i>Secondary (10th)</i>	2019 – 2020 <i>Percentage: 94.24</i>

Certifications

- Statistics & Machine Learning for Data Science — Learnbay
- Python for Data Science — Learnbay
- SQL & MongoDB — Learnbay
- Tableau & Power BI — Learnbay
- Advanced Excel — Learnbay
- Time Series — Learnbay

Additional Information

- **Languages:** English, Kannada, Hindi
- **Interests:** Chess, Yakshagana, Outdoor Activities