

Mohit Bali

LinkedIn: [linkedin.com/in/mohit26bali](https://www.linkedin.com/in/mohit26bali)

GitHub: <https://github.com/Mohit26-BM>

Email: M26ohitbali@gmail.com

Mobile: +91-8799773685

SKILLS:

- Programming Languages: Python, R, SQL
- Web Development: HTML, CSS, JavaScript, Django, Flask
- Libraries and Frameworks: scikit-learn, Pandas, NumPy, Matplotlib
- Data Tools: Tableau, Excel, Power-BI, MySQL, PostgreSQL
- Soft-Skills: Adaptable, Collaborative, Communicative

PROJECTS:

- **LitMatch: Semantic Book Recommendation System** Oct'25-Nov'25
 - Developed a semantic book recommender using LangChain, ChromaDB, and embedding-based search, with rule-based classification and emotion-weighted tone scoring.
 - Improved system robustness with input validation, and deployed via Gradio on HuggingFace space.
Tech Stack: Python, Gradio, Embeddings, LangChain, ChromaDB
- **Django URL Shortener** Jul'25-Aug'25
 - Designed and implemented a Django-based backend for URL shortening, including request routing, server-side validation, database persistence, and secure redirection workflows.
 - Integrated the Bitly REST API with environment-based secret management, implemented robust error handling for invalid inputs and API failures, and structured the project for production extensibility
Tech Stack: Django, Python, REST APIs, SQLite, HTML, CSS
- **Customer Churn Prediction using Machine Learning** Jun'25-Jul'25
 - Implemented and deployed an end-to-end churn prediction pipeline using Flask, addressing class imbalance with SMOTE and preprocessing/feature encoding for Random Forest and XGBoost.
 - Achieved 78.2% accuracy and 61% churn recall with XGBoost, improving significantly over baseline model that had 73.5% accuracy but 0% churn detection, demonstrating limitations of accuracy for imbalanced data.
Tech Stack: Python, Pandas, NumPy, Scikit-Learn, XGBoost, Matplotlib, Flask
- **World Happiness Report: Regression and Classification Analysis** Oct'24-Nov'24
 - Built classification models to categorize happiness levels; Naive Bayes was best with Accuracy 89.1% and F1 86.8%
 - Conducted regression analysis to identify factors influencing happiness (RMSE 0.5064, R² 0.8155), indicating the model predicts happiness scores with high accuracy and explains ~82% of the variance
Tech Stack: R, ggplot2, caret, caTools,

TRAINING:

- **AWS Cloud Computing - Cipher Schools** Jan'25-Feb'25
About: Gained hands-on experience with core AWS services including EC2, S3, Auto Scaling, and Load Balancers. Automated infrastructure and applications to enhance scalability and availability

CERTIFICATIONS:

- Python for AI and Data Science IBM (Coursera) Apr'25
- Supervised Machine Learning: Regression and Classification DeepLearning.AI (Coursera) Dec'24
- Data Analysis with Tableau Tableau Learning Partner (Coursera) Dec'24
- Cloud Computing NPTEL Oct'24

EDUCATION:

- Lovely Professional University Bachelor of Technology (B.Tech) in Computer Science & Engineering, **CGPA: 7.65** Phagwara, Punjab Aug'22-Present
- Blue Bird Senior Secondary School Senior Secondary (XII) – Science (PCM), **Percentage: 76.8%** Faridabad, Haryana May'19-Jul'20
- Shri Guru Teg Bahadur School Senior Secondary (X), **Percentage: 85.6%** Faridabad, Haryana May'17-Jul'18

