Bhavesh Patil

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SUMMARY

Data Scientist with practical experience in data preprocessing, feature engineering, and predictive modeling. Proficient in Python, SQL, and deep learning frameworks like TensorFlow and Keras. Skilled at building and fine-tuning ML models for classification, regression, and NLP tasks.Strong analytical thinker with a problem-solving mindset and attention to detail. Experienced in data visualization and presenting insights to both technical and non-technical audiences.

SKILLS

- **Technical Tools:** SQL, Excel, Power BI, Tableau, Pandas, NumPy
- **Data Science & Machine Learning:** Data Science, Machine Learning, Deep Learning, NLP, Gen AI, Scikit-learn, TensorFlow
- **Visualization & Reporting:** Data Visualization, Matplotlib, Seaborn
- **Analytical Skills:** Statistics, Data Analysis, Attention to Detail, Problem Solving
- **Soft Skills:** Leadership & Teamwork, Collaboration, Time Management, Critical Thinking

EXPERIENCE

NeuroNexus Innovations | *Data Science Intern* **Apr 2025 - May 2025**

- Cleaned and analyzed over 280,000 transaction records using Pandas, SQL, and visualization tools to uncover fraud patterns.
- Identified key trends and outliers through EDA and visualizations using Seaborn, Matplotlib.
- Engineered features like transaction hour and log-transformed amounts, improving model performance and interpretability.
- Handled data imbalance using SMOTE, boosting fraud detection recall without compromising model reliability.
- Built and evaluated multiple ML models (Logistic Regression, Decision Tree, Random Forest, XGBoost), achieving up to 88% recall and visualized performance using comparison dashboards.

PROJECTS

Smart Loan Recovery System | *Project Link*

- Developed a Streamlit-based web application to predict loan recovery risk with 95% accuracy using machine learning models.
- Automated risk scoring and recovery strategy recommendations, improving decision-making efficiency.
- Enabled seamless CSV upload, real-time prediction, and downloadable reports, enhancing usability for financial teams.
- Reduced manual analysis time by over 70% through full automation of loan recovery risk assessment.

Deep Fake Voice Detection System | *Project Link*

- Built a Deepfake Audio Detection System using MFCC features and classical ML models like Random Forest and Logistic Regression.
- Preprocessed and extracted MFCCs from real and synthetic audio datasets for model training.
- Trained models to distinguish real vs. AI-generated voices, achieving up to 96% classification accuracy.
- Evaluated model performance using confusion matrix, precision, recall, and ROC curves for robust validation.
- Contributed to the field of audio forensics by automating the detection of synthetic voices, enhancing security in voice-based systems.

T20 World Cup 2024 Data Analysis

- Designed and deployed interactive Power BI dashboards for IPL team owners, focusing on T20 World Cup 2024 performance
- Analyzed player stats, team performance, and match outcomes to uncover key insights driving strategic decisions.
- Integrated slicers, bookmarks, and role-based visuals for personalized, dynamic analysis experiences.
- Delivered actionable insights on player form, impact metrics, and team combinations, aiding selection and match planning.
- Helped stakeholders gain a competitive edge by transforming raw match data into clear, visual intelligence.

EDUCATION

Bachelor of Engineering, Mechanical **(CGPA:7.3)** **2024**

HSC **(73.54%)** **2020**

SSC **(90.60%)** **2018**

CERTIFICATIONS

- Postgraduate Program in Data Science and Analytics
- BCG Data Science Job Simulation
- Deloitte Australia Data Analytics Job Simulation

AWARDS

- All India Rank 3 in MEGA ATV CHAMPIONSHIP
- All India Rank 4 in National level Data Science Hackathon