ARPIT LAL

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SUMMARY

Final-year Electrical Engineering undergraduate with hands-on experience in **Backend Development**, **Machine Learning, NLP, and Data Analysis**. Built and deployed **end-to-end ML pipelines** for clustering, recommendation, and prediction problems. Proficient in **DSA** and backend development using **Flask and Django**. Seeking **ML Engineer / SDE-1 roles** in IT companies.

TECHNICAL SKILLS

Programming Languages:	Python, C, C++,
Backend :	Flask , Django , DSA
Machine Learning:	Scikit-learn, TensorFlow, Keras, NLP, Clustering
Data Analysis and Visualization:	Pandas, NumPy, Matplotlib, Seaborn
Databases:	MySQL
DevOps Tools:	Git, GitHub, Docker, GitHub Actions
Embedded and Electrical:	Arduino, Raspberry Pi, MATLAB, EagleCAD

PROJECTS

E-Tongue *Summer Internship, NIT Patna*
EagleCAD, Matlab, LabView, Python, Machine Learning, Deep Learning
- Designed and worked on an **E-Tongue** system integrating hardware (sensors, circuitry) and software for data acquisition and analysis.
- Applied **ML/DL techniques** for pattern recognition and classification of sensor responses.

Stock Prediction System Stock Prediction System | GitHub
yfinance, Pandas, datetime, matplotlib, sklearn, keras
- Built a stock price prediction pipeline using **historical market data** and ML/DL models.
- Implemented data fetching, preprocessing, model training, and visualization of predicted vs actual trends.

Movie Recommendation System Movie Recommendation System | GitHub
Numpy, Pandas, Matplotlib, AST, NLTK, sklearn
- Developed a **movie recommender system** leveraging NLP and similarity-based approaches.
- Processed movie metadata and plots to generate personalized recommendations for users.

Fake News Detector Fake News Detector | GitHub
Numpy, Pandas, re, NLTK, PorterStemmer, TfidfVectorizer, LogisticRegression, accuracy score
- Implemented a **text classification** pipeline to detect fake news articles.
- Used TF-IDF features and **Logistic Regression** to achieve robust performance, evaluated via accuracy metrics.

Customer Segmentation Customer Segmentation | GitHub
Numpy, Pandas, Matplotlib, Seaborn, sklearn, Scipy, Silhouette score
- Performed **unsupervised learning** for customer segmentation using clustering algorithms.
- Evaluated clustering quality using **Silhouette score**, and visualized segments for business insights.

CI/CD Pipeline CI/CD Pipeline | GitHub
GitHub Actions, Docker, GitLab
- Designed a **CI/CD pipeline** to automate build, test, and deployment workflows.
- Integrated Docker and GitHub Actions/GitLab for streamlined DevOps processes.

ACHIEVEMENTS

- **IISc, Bangalore:** Review paper on *White Dwarf Binary System and Binary Pulsars* got selected.

- **IIT Roorkee:** Participated in IIT Roorkee Techfest Cognizance 2024 for events: *RC Plane, Robo Soccer, RC Car.*

- **Smart India Hackathon:** Cleared the first round of SIH at college level.

- **MIT WPU, Pune:** Represented **NSS YP SLIET** at MIT WPU Pune for the 13th BCS assembly held in Jan 2024.

EDUCATION

B.E. Electrical Engineering — Longowal, Punjab
Sant Longowal Institute of Engineering and Technology (SLIET) — *6th Semester*
CGPA: **7.5**

XII (CBSE) — Patna, Bihar
Holy Mission Senior Secondary School — *March 2021*
Percentage: **75.4%**

X (CBSE) — Patna, Bihar
Loyola High School — *March 2019*
Percentage: **85.6%**

POSITIONS OF RESPONSIBILITY

Endeavour (Robotics Team): *Convener*
- Led and coordinated robotics activities, competitions, and team projects.

Sur & Rhythm (Music Band): *Co-ordinator*
- Organized and managed band practices and performances for institute events.

Youth Parliament (NSS): *Ex-Co-coordinator*
- Coordinated **Youth Parliament** activities under NSS, promoting student engagement and public speaking.