JANA ALGURASHI

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SUMMARY

Machine Learning Engineer experienced in NLP, predictive modeling, and end-to-end model deployment. I have built ML systems across multiple domains including aspect-based sentiment analysis, LLM fine-tuning, and real-time prediction modeling. I am currently extending my work into video machine learning, exploring deep-learning techniques for video enhancement and streaming optimization.

PROFESSIONAL EXPERIENCE

Independent Developer — Zaina Platform
Apr 2025 - Present

Built an end-to-end beauty booking platform using React Native, integrating admin and user flows, smart scheduling, and a clean modern UI. I developed machine-learning features including a service recommendation engine.

ML Intern— University of Jeddah (2024)
Aug 2024-Nov 2024

Predicted service completion times using ML to improve administrative workflow efficiency.
Analyzed historical logs, built models to forecast processing times, and identified bottlenecks.
Powered decision-making dashboards to improve turnaround times.

PROJECTS

Aspect-Based Sentiment Analysis
Jun 2023 -Jun 2024

- Developed a dual-model ABSA system using BiLSTM + IOB tagging for aspect extraction and CNN/BiLSTM for sentiment classification.
- Trained on SemEval, MAMS, and a 171k custom dataset.
- Achieved 87.2% accuracy and 0.88 balanced accuracy.
- Built a Streamlit interface for real-time prediction and visualization.

Train Delay Prediction & Intelligent Chatbot
Apr 2024 -July 2024

- Built prediction models (XGBoost, RandomForest) for forecasting real-time train delays using 426,729 entries.
- Performed feature engineering, outlier treatment, cross-validation, and hyperparameter tuning.
- Achieved RMSE ≈ 3 with strong predictive performance.
- Integrated the model into a chatbot via spaCy + Experta rule-based engine.

COMPITIONS

Arabic Poetry Generation & Correction (LLM Fine-Tuning)
2024

Fine-tuned the Allam LLM for:
- poetry generation by topic/rhythm/meter
- poetry correction using simulated meter errors
- Built a 100,000+ poem dataset through web scraping + cleaning
- Created a web app + iOS Keyboard Extension for interactive poetry generation

EDUCATION

Bachelor of Science in computing science
Sep 2021 - Sep 2024

- University of east Anglia

SKILLS

Pytorch	Skitlearn	Firebase	LTSM
TensorFlow	Matbolip	GoogleColab	BigQuery