

# JANNET AKANKSHA EKK

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## PROFESSIONAL SUMMARY

**Data Scientist** with **4+ years** of **QA automation** experience, specializing in **ML, computer vision**, and **NLP**. Proven expertise in developing **predictive models**, **automated testing frameworks**, and **data-driven solutions**. Track record of **leading technical teams** and implementing **enterprise-scale automation**. Demonstrated success in bridging **QA** and **ML** domains through projects in **automotive surveillance**, **customer analytics**, and **financial sentiment analysis**.

## TECHNICAL SKILLS

<i>Data Science &amp; Machine Learning</i>	<i>Testing &amp; Automation</i>
<ul style="list-style-type: none"><li><i>Languages &amp; Core:</i> Python, SQL, Pandas, NumPy</li><li><i>Visualization:</i> Matplotlib, Seaborn, Tableau, PowerBI</li><li><i>ML/DL:</i> scikit-learn, TensorFlow, Keras, ImageNet</li><li><i>NLP:</i> NLTK, Word Embeddings, Mistral-7B, huggingface</li><li><i>Model Storage:</i> Pickle, Joblib</li></ul>	<ul style="list-style-type: none"><li><i>Web:</i> Selenium WebDriver, Katalon Studio</li><li><i>Mobile:</i> Android Studio</li><li><i>Management:</i> JIRA, TestRail, HP ALM, iTrack, Zephyr</li></ul>
<i>Development &amp; Deployment</i>	<i>Platforms &amp; Cloud</i>
<ul style="list-style-type: none"><li><i>APIs:</i> FastAPI, Flask, Postman, SoapUI</li><li><i>Containerization:</i> Docker, Kubernetes</li><li><i>Version Control:</i> Git, BitBucket</li><li><i>CI/CD:</i> Jenkins</li></ul>	<ul style="list-style-type: none"><li><i>CRM:</i> Salesforce</li><li><i>E-commerce:</i> SAP Hybris</li><li><i>Database:</i> Azure Teradata, SQL Data Warehouse</li></ul>

## PERSONAL PROJECTS

### AUTOKORREKT - AI-Powered Answer Evaluation System - Early-stage EdTech Startup MVP

#### Lead Frontend Developer (May 2024 – Jan 2025)

- Engineered **interactive PDF processing system** with **coordinate-based text extraction**, integrating **AWS Textract OCR** and **Mistral ML models**
- Built end-to-end validation workflow handling **1000+ concurrent submissions**, reducing grading time by **70%**
- Developed **bilingual evaluation interface (English/German)** with **real-time NLP feedback** using **Amazon Comprehend**
- Designed **ML pipeline** using **AWS SageMaker**, implementing data flow between **S3, RDS, and frontend**
- Created **analytics dashboard** for performance visualization, achieving **85%** improvement in grading consistency
- Collaborated on **system architecture** for **AWS infrastructure (EC2, Django backend)** and **ML model deployment**
- Scaled **MVP** to support **100+** concurrent teacher **sessions** across multiple schools
- Technologies:** Frontend: React, Next.js, TypeScript. ML/AI: OCR, NLP, Feature Extraction. Cloud: AWS (EC2, S3, RDS, SageMaker). Backend: Python, Django. Data Science: Analytics, Visualization, ML Pipeline Design

## ACADEMIC PROJECTS (Top 3)

### 1. Automotive Surveillance System – Capstone (Computer Vision & Deep Learning)

- Collaborated and developed an **AI-powered vehicle surveillance system**, achieving **69.20% accuracy** in car classification using **ResNet50**.
- Implemented **Fast R-CNN** for **object detection**, processing **16,185 images** across **196 vehicle classes**.
- Serialized the trained model using **Pickle** and **chunk sytems**, allowing efficient reuse in different applications.
- Business Impact: Improved **real-time vehicle monitoring** for smart surveillance systems.
- Technologies:** TensorFlow, OpenCV, Keras, Docker, Flask

<b>2. Customer Churn Prediction (Machine Learning &amp; Business Analytics)</b>
<ul style="list-style-type: none"><li>Built a <b>churn prediction model</b>, achieving <b>81.48% accuracy</b> with <b>Random Forest &amp; Gradient Boosting</b>.</li><li>Created a <b>data-driven retention strategy</b>, identifying high-risk customers based on service usage patterns.</li><li>Serialized the model using <b>Joblib</b> for efficient storage and retrieval.</li><li>Business Impact: Helped reduce <b>customer attrition</b>, improving telecom retention rates.</li><li><b>Technologies:</b> scikit-learn, SQL, FastAPI</li></ul>
<b>3. Stock Market Sentiment Analysis (NLP &amp; Finance)</b>
<ul style="list-style-type: none"><li>Built a <b>financial news sentiment classifier</b>, leveraging <b>Mistral-7B embeddings</b> and <b>transformers</b>.</li><li>Achieved <b>F1-score: 0.52</b> (validation), <b>0.37</b> (test), identifying market trends from financial articles.</li><li>Serialized the NLP model using <b>Pickle</b> for seamless integration into financial analysis pipelines.</li><li>Business Impact: Assisted traders and analysts in real-time sentiment tracking for financial decision-making.</li><li><b>Technologies:</b> NLTK, Word Embeddings, Transformers, huggingface</li></ul>

<b>PROFESSIONAL EXPERIENCE</b>
<b>INTERNSHIP STUDIO, Remote</b>
<b>Machine Learning Intern (Jul 2024 – Aug 2024)</b>
<ul style="list-style-type: none"><li>Developed a <b>Random Forest model (<math>R^2 = 0.252</math>)</b> for predicting <b>YouTube ad views</b> based on video engagement metrics.</li><li>Processed <b>15,000+ videos</b>, uncovering trends in audience retention and ad revenue.</li><li>Deployed the model using <b>Pickle</b> for serialization, allowing seamless integration with <b>business dashboards</b>.</li><li>Business Impact: Provided data-driven insights for ad revenue optimization and marketing strategies.</li><li><b>Technologies:</b> scikit-learn, Pandas, Seaborn, Pickle</li></ul>
<b>DELOITTE CONSULTING LLP, Bangalore</b>
<b>Test Automation Engineer (Aug 2019 - Jan 2023)</b>
<ul style="list-style-type: none"><li>Led a <b>6-member QA team</b> to automate and optimize <b>testing pipelines</b> for <b>Salesforce &amp; enterprise</b> applications.</li><li>Developed automation components using <b>Selenium</b> &amp; Katalon Studio, improving test efficiency by <b>83%</b>.</li><li>Analyzed test execution data using <b>Python scripts</b> and built <b>Tableau dashboards</b> to track metrics across <b>343</b> components, reducing test failures by <b>25%</b>.</li><li>Developed Python scripts to analyze <b>50,000+ SAP Hybris transactions</b>, identifying key performance bottlenecks.</li><li>Implemented <b>Jenkins-based</b> automated reporting system, reducing manual data analysis time by <b>75%</b> and improving CI/CD pipeline efficiency.</li><li>Automated data validation for <b>10,000+ product configurations</b> using Python scripts.</li><li><b>Technologies:</b> Selenium, Python, JavaScript, Git, JIRA, Tableau</li></ul>

<b>ACHIEVEMENTS</b>
<ul style="list-style-type: none"><li>Successfully completed <b>Benjamin Bennett Alexander's</b> book '<b>50 Days of Python: A Challenge a Day</b>'.</li><li><b>2 Spot Awards</b> at Deloitte for outstanding project contributions</li><li><b>Applause Award</b> for exceptional work on Hewlett Packard Enterprise – Configure, Price, Quote project.</li></ul>

<b>EDUCATION</b>
<b>Post Graduate Program in Artificial Intelligence and Machine Learning (2024-2025)</b>
Texas McCombs School of Business & Great Lakes Institute of Management
<b>Bachelor of Technology in Information Technology (2015-2019)</b>
Kalinga Institute of Industrial Technology University, Bhubaneswar

<b>CERTIFICATIONS</b>
<ul style="list-style-type: none"><li><b>Post Graduate Program in Artificial Intelligence and Machine Learning</b> - Texas McCombs &amp; Great Lakes (2025)</li><li><b>CPSAT - Certified Professional Selenium Automation Testing</b> (2022)</li></ul>