Pranay Sai Jangeti

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Professional Summary

Postgraduate student in Artificial Intelligence and Data Science with hands-on experience in data modeling, automation testing, and AI-driven applications. Passionate about building impactful machine learning systems, data pipelines, and computer vision models. Proven ability to work across cross-functional teams and automate workflows using Python and open-source tools.

Education

Loyalist College – Toronto, ON
Post Graduate Certificate, **Artificial Intelligence & Data Science**
Expected: **Dec 2025**

Jawaharlal Nehru Technological University – Hyderabad, India
Bachelor of Technology, **Electrical and Electronics Engineering**
Graduated: **Aug 2022**

Technical Skills

Languages: Python, JavaScript, TypeScript, SQL, HTML, CSS
ML/DL Tools: Scikit-learn, XGBoost, TensorFlow, Keras, SHAP, LIME
Data Tools: Pandas, NumPy, Power BI, Matplotlib, Seaborn
Testing & Automation: Cypress (Mocha/Chai), Postman, API Testing
Frameworks & Platforms: Jupyter, VS Code, Figma, MKdocs, Git
Soft Skills: Problem Solving, Communication, Teamwork, Critical Thinking

Professional Experience

Associate Software Engineer – QA
CGI Inc., Hyderabad, India | Oct 2022 – Mar 2024

- QA Engineer at CGI, specializing in the Evernorth project for Cigna, focusing on UI and API automation.
- Proficient in Cypress - chai and mocha frameworks, managing registration, login, and reset password functionality.
- Actively involved in identifying defects in Jira to enhance application efficiency.
- Performed thorough UI and API automation testing for the Cigna Support tool to ensure functionality and reliability.
- Collaborated with the analytics team to enhance backend analytics automation and transitioned multiple data sources from confluence pages to MKdocs for improved accessibility.

Other Work Experience

Cashier – Part Time
No Frills, Stouffville, ON | Sept 2024 – Present

- Delivered fast and friendly service to 80+ customers per shift, accurately handling cash, debit, and credit transactions.
- Maintained a clean and organized checkout area, directly contributing to improved customer satisfaction ratings.
- Resolved customer concerns efficiently, ensuring a smooth shopping experience and maintaining a positive store reputation.

- Operated POS systems with precision; consistently balanced the cash register at start and end of shifts with 100% accuracy.
- Collaborated with cross-functional teams to restock shelves and optimize store layout during peak hours, improving product accessibility and workflow.

Projects

Car Crash Cost Estimation System

- Developed a computer vision-based system to estimate car repair costs using real-world damage images.
- Performed large-scale image scraping and manual labeling to create a high-quality dataset for model training.
- Conducted Exploratory Data Analysis (EDA) to identify visual patterns, outliers, and relationships in the dataset.
- Implemented and fine-tuned deep learning models including ResNet and EfficientNet using transfer learning techniques.
- Evaluated model performance using MAE, RMSE, and R^2 metrics to ensure prediction accuracy and consistency.
- Applied data augmentation and preprocessing to enhance model generalization across various damage scenarios.

Thyroid Disease Detection System

- Developed a supervised machine learning pipeline to classify thyroid disorders using patient lab results (TSH, T3, T4, etc.).
- Applied and compared Logistic Regression, Random Forest, and XGBoost models for accurate diagnosis predictions.
- Achieved high precision and recall, optimizing model performance with hyperparameter tuning and cross-validation.
- Ensured model transparency and trustworthiness using SHAP and LIME for feature importance and individual prediction explanations.
- Preprocessed medical data through normalization, feature engineering, and outlier treatment to improve learning efficiency.

Bank Churn Prediction System

- Built a predictive data pipeline to identify potential customer churn using demographic and transactional data.
- Engineered and cleaned features such as age, tenure, credit score, and account balance for model readiness.
- Applied machine learning algorithms including Logistic Regression, Decision Trees, and Gradient Boosting.
- Executed model evaluation using ROC-AUC, confusion matrix, precision, recall, and cross-validation to ensure robustness.
- Visualized churn trends and feature importance to provide actionable business insights.
- Designed a modular and scalable pipeline for future integration with real-time banking systems.

More Projects on **Github** - https://github.com/phantomad007?tab=repositories