

PRIYANKA PALLAVI

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SKILLS

Programming : Python | Java | Data Structures | Algorithm | VbScript | System Commands | GIT | SQL |

Libraries : Pandas | Numpy | Matplotlib | Seaborn | Rgdal | Scikit-learn | Scipy | Tensorflow | Keras | Data Visualization

Software : AWS (DynamoDB/IAM/SNS/SQS/Sagemaker) | IntelliJ | PyCharm | Google Cloud | Azure | PowerBI | Teamcenter/NX | Unity3D | Microfocus UFT One/Developer | Confluence (Jira/Xray/Bamboo) |

Machine Learning : Regression & Prediction (Linear, Logistic, Lasso, Ridge) | Bagging & Boosting (Xgboost, Gradient, Adaptive) | Decision Tree & Random Forest | k-means | Classification & Hypothesis Testing | Predictive & Time Series Analytics | Neural Networks (DNN, CNN, ANN) | Recommendation Systems | Networking & Graphical Models | NLP | Computer Vision |(Up/Down sampling | Cross Validation, Hyperparameter tuning, Regularization, Data Augmentation)| Deep Learning

Soft : Communication & Interpersonal | Negotiation & Conflict Resolution | Time management | Teamwork | Critical & Analytical thinking

EXPERIENCE

AMAZON

Software Quality Assurance Engineer (Automation Test Development) | Product: Kindle

| Nov,2022 – present

End-to-end Automation and CI/CD integration for three projects

- **Streamlined Continuous Deployment:** Led the team to achieve continuous deployment (CD) **by Q2, exceeding the Q4 target.** Achieved over **80% of deployments consistently** reaching full CD, reducing deployment and **test time from 5 days to 4 hours.**
- **Researched Automation Architectures:** Designed optimal automation architectures leveraging the latest technologies and frameworks that support dependencies on external tools and services for storage, workflow validation, execution, and reporting, achieving **85% code coverage and 100% end-to-end automation.**
- **Architected High-Level and Low-Level Design:** Created detailed HLD and LLD documents to improve functionality and scalability, enabling precise implementation and effective tracking of dependencies and risks. Conducted rigorous unit and integration tests, leading to **over 30 feature enhancements** in Kindle Content and conversion services, significantly boosting customer satisfaction and resource utilization.
- **Automated Testing Framework:** Developed a comprehensive automated testing framework with best practice strategies and a strategic roadmap. Successfully onboarded **lean-agile methodologies, optimizing development processes.**
- **Optimized CI/CD Pipeline:** Unified multiple pipelines and their dependencies, simplifying operations and reducing SAS risks. Implemented effective monitoring, alert systems, and a rollback mechanism, consolidating **from 10 pipelines to 4.**
- **Performed Root Cause Analysis and Rapid Fixes:** Conducted root cause analysis for **over 10 issues**, identifying bugs and deploying fixes to production **within 24 hours** as part of on-call duties.
- **Developed, reviewed, and tested code:** Programmed feature inclusion, upgrades for services and shared functionalities and refactored legacy code within Kindle services, establishing guidelines for future.

Kindle Pub ToolstoReader European Accessibility Act adaptation

- **Accessibility Framework Development:** Collaborated with US and European teams to create a robust **automation framework** for Kindle Pub ToolstoReader, ensuring compliance with the European Accessibility Act. Implemented comprehensive testing plans to enhance HTML styles, improving navigation and user experience for diverse audiences.

Leadership : Mentor for QAE Team; Orchestrated team-building, cost negotiation and event management for the Kindle team.

BSH HOME APPLIANCES GROUP (Bosch & Siemens)

| Jun,2019 - Oct,2022

Software Engineer | Test and Release Management Lead | Product: PLM Teamcenter

PLM End-to-end Automation for Teamcenter, NX and its supported applications

Achievements

- Led a **14-member Automation team**, collaborating globally with cross-functional teams, TRO managers, and business leads, completing it a year ahead, reducing testing/reporting time from 2 weeks to just 3 days—a 90% reduction in time, manual effort, and cost.
- Conducted **international project increment planning and negotiations** with Product Owners and managers across Germany, Spain, Turkey, China, and the US, formulating and accepting demands and objectives, guaranteeing timely and accurate deliverables, bolstering stakeholder satisfaction.
- Developed and orchestrated the **delivery of 1,105 automated regression tests** with an impressively **low bug rate of 0.3%.** This efficiency enabled more frequent software releases and elevated the project status from "Release with Restriction" to "Release Successfully."
- Enhanced manufacturing and operations testing processes by promoting **lean-agile mindset**, implementing optimized guidelines and integrating best industrial practice for automation, resulting in **70% improved delivery**, speed and a reduction in error to a mere 1%.
- Pioneered the automation process by integrating best practices from **CI/CD, and DevOps**, achieving a **60% boost in productivity.**
- Positively improved team dynamics and performance through effective planning, attitude, and one-on-one sessions, leading to increased delivery rates and a **higher rate of volunteerism.**
- Achieved **organizational trust and recognition**, with multiple teams referencing our framework and client relationship approach.
- Served as Project Lifecycle Management's main liaison for consultancies for hiring talent, conducting interviews assisting and negotiating with vendors.

Responsibilities

- **Contributed to internal projects:** Independently delivered various internal projects across ML-NLP, Computer Vision, AR/VR, web applications, and IoT, effectively balancing development, quality assurance/testing, and management communication.
- **Resolved project issues:** Responsibilities of **solution architect** to address project challenges, **developing coding solutions and alternatives** to remove impediments.

- **Automated UI for multiple platforms:** Developed automated UI solutions for platforms including Web, Teamcenter, NX, SAP, Polarion, and desktop applications, and wrote and performed API tests. Translated user requirements and processes into scripts to schedule, managing hardware and software prerequisites and configurations.
- **Reduced redundant functional requirement:** Utilized data analytics to decrease automation redundancy from over 3,000 to around 1,500 test process cases, enhancing modularity and maintainability by approximately 50%.
- **Oversaw team management:** Produced **statistical reports and visualizations** to ensure alignment with project goals, evaluating timely delivery, test performance, automated script efficiency, and team performance.
- **Organized Upscaling Training Sessions:** Conducted training on the latest technologies to share best practices, delivering technical presentations and leading business value sessions..

AR/VR Office/Store Tour

- Developed an interactive office tour using Unity3D and C#, allowing users to navigate and interact with products virtually.

Meeting Room Display and Monitoring Software

- Created a meeting room occupancy display, programming IoT devices in C/C++ and integrating with Outlook.
- Utilized servlets to display schedules on monitors, enhancing meeting room management.

Sentiment Prediction on Reviews

- Built a machine learning model to predict sentiment from a dataset of Product Reviews, achieving 75% accuracy with just one parameter using Excel Azure ML add-in and Notebook.

Software Quality and Test Engineer Intern

| Jun,2019 – May,2020

EDUCATION

MIT IDSS, Cambridge & Great Learning	94.83%
Program in Data Science and Machine Learning: Making Data-Driven Decisions	
Indian Institute of Technology, Tamil Nadu (pursuing)	7/10 CGPA
BSc. in Data Science and Applications	
Lovely Professional University, Punjab	9.43/10 CGPA
B.Tech in Computer Science and Engineering Honours <i>Minors:</i> Machine Learning <i>Capstone project :</i> AI-powered Home Automation for visually impaired	
Peevees Public School, Kerala	
Senior Secondary School Examination, CBSE	80%
Secondary School Examination, CBSE	9.8/10 CGPA

CERTIFICATES

Computing Using Python | Machine Learning | IoT |
Data structure and Algorithm in Python | Data mining
International Summit on Data Science and AI – 2020,
Conference on Deployable AI – 2021

COURSES

Machine Learning Specialization | Data science and
Programming | SAFe for Architects | Data science with
Python
Amazon internal Courses : Jupyter Notebooks for MLU
Students | ML for All | ML for Leaders Generative AI |
Accelerated - Natural Language Processing | Technique -
Deep Learning 1 | ML for Leaders Computer Vision |

PROJECTS

Data Science skills:

Data Analysis & Visualization | Exploratory Data Analysis | Feature Engineering | Predictive Analysis |
Statistics | Quantitative & Prescriptive Analysis | GIS modelling & Identifying Trends | Hypothesis testing |
Data Mining | Data Validation | MS Excel Analytics |

[Libraries : BeautifulSoup, Pandasprofiling, pycaret, goeipy, *seaborn*, *AzureML*, *Tableau*, *textblob*,
Pysql, *Blockchain*, *Socket Prog.*, *PyQT*]

Amazon Product Recommendation System: Developed a recommendation engine that analyzed user data to suggest products, significantly enhancing customer engagement and conversion rates.

Predicting Potential Customers: Utilized classification techniques and hypothesis testing to identify high-potential leads, refining marketing strategies based on customer attributes and interactions

FoodHub Order Analysis: Conducted a detailed analysis of restaurant order data to understand demand fluctuations, informing operational improvements and enhancing customer experience.

Sentiment Prediction on Movie reviews - Kaggle Competition: Built an ML model to predict sentiments from movie reviews, incorporating titles, descriptions, ratings, and review texts, demonstrating proficiency in NLP and text classification.

Goodreads book Rating & Sentiment Analysis: Analyzed Goodreads book data using NLP techniques to classify reviews and predict sentiments, visualizing the results to better understand user emotions and preferences.

Machine Learning model Analysis: Optimized and evaluated machine learning models (MHealth, Liver Disease, Adult datasets) to identify the best-performing algorithms, utilizing performance metrics and visualizations.

Home Automation using Chatbot: Designed an interactive chatbot for controlling IoT devices through natural language commands, showcasing my skills in software integration and user experience design.

Application development skills: Flask, Jinja2, SQLite, VueJS, Redis, *HTML*, *Bootstrap*, *MySQL*

Web Applications:

Music Player: Developed a multi-user application for streaming music consisting song ratings, playlist creation, user interactions, etc.

E-Commerce: An online luxury shopping website

Here I Come: A package delivery system: Built a real-time package tracking application integrating IoT devices to monitor parcel locations and alert users about fragile package handling. This project combines logistics and technology to improve delivery efficiency

AWARDS & INTERESTS

Computing :
“TALENTIFY” Outstanding Professional in Engineering(Only 10 selected globally across all departments)[**BSH:2022**], **Winner of Best Innovating idea** at One India Festival, **Winner of Algorithm designing** at Global Open Fest
Languages :
Proficient in English and Hindi
Volunteer :
Amazon Women in Engineering- Conducted seminars, workshops and conferences. **Youth Union for Voluntary Action (YUVA)-** Initiatives to inspire students in a coal mining community towards computer science and technology **Edison Public School, Tatijharia (NGO)** - Conducted trainings for middle school students on Office applications and foundational development techniques.