

Divya Prakash

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PROFESSIONAL EXPERIENCE

Prodapt Solutions

Oct 2021 – Aug 2023

Software Engineer

- Developed a scalable **Selenium**-based automation framework using **Java** and **TestNG** for web chatbot applications, improving test execution efficiency by 90% and significantly reducing manual regression effort.
- Automated iOS chatbot test suites using **Appium**, increasing mobile test coverage to 70% and reducing production defects by 30%, resulting in improved release reliability.
- Improved backend reliability and performance by conducting REST API testing with **Postman** and performance testing with **JMeter**, ensuring stable end-to-end workflows.
- Accelerated defect resolution by 25% by providing developers with detailed bug documentation and root cause analysis, collaborating cross-functionally to validate fixes and ensure on-time feature releases.
- Created and organized test artifacts in **JIRA** and Confluence to improve sprint visibility and support timely feature releases.

Tools and Technologies: Java, Selenium, Appium, TestNG, REST API, Postman, JMeter, JIRA, Confluence

Tech Fortune Technologies

Mar 2021 – Apr 2021

Machine Learning Intern

- Developed a ML classification system predicting wine quality with 90% accuracy across 1,599 samples by training and evaluating **Random Forest, SVM, KNN, Decision Tree, Logistic Regression** using **Python & Scikit-learn**.
- Boosted model reliability and generalization by building a structured machine learning workflow with StandardScaler and GridSearchCV, optimizing hyperparameters to achieve 88.5% cross-validation accuracy.
- Implemented a robust evaluation strategy by applying an 80/20 train-test split and training-only feature scaling using scikit-learn to prevent data leakage and ensure unbiased model performance.
- Derived actionable insights through exploratory data analysis and visualization using **Pandas, Matplotlib, and Seaborn**, identifying class imbalance and restructuring the problem into a business-ready binary classification system.

TECHNICAL SKILLS

Languages & Databases: Java, Python with Data Structures, JavaScript, MySQL, PostgreSQL, NoSQL

Web Technologies: HTML5, CSS, TypeScript, Bootstrap, jQuery, RESTful API

Frameworks: React JS, Redux, Node.js, Express.js, REST, FastAPI

Tools & UX: Figma, Framer, Balsamiq, Notion, Prototyping, User-centered Design, Visual Design, Interaction Design, Information Architecture, Design Systems, User Research, Usability Testing, Competitive Analysis, Accessibility Design

EDUCATION

Master of Science in Information Systems, Northeastern University, Boston, MA

May 2026

Coursework: User Experience Design & Testing, Web Design User Experience Engineering, Application Development

Bachelor of Engineering in Information Science, Jyothy Institute of Technology, Bangalore, India

June 2021

Coursework: Web Technology, Object Oriented Concepts, Software Engineering, Data Structures, Algorithms

PROJECTS

Northeastern Library App | (*Balsamiq, Figma*)

- Accomplished a mobile-first NEU Library App redesign by enabling core user workflows (study room booking, book rentals, personalized accounts, event RSVPs, and real-time alerts) as measured by a streamlined information architecture that supported faster task completion across key student use cases.
- Improved navigation, booking, and search usability as measured by clearly prioritized MoSCoW product requirements by conducting end-to-end UX research, including user interviews, surveys, competitive analysis, and usability testing with 15+ users.
- Reduced study room booking steps by 40% and increased task completion rates by iterating through three high-fidelity Figma prototype cycles, incorporating direct user feedback and usability testing insights.

Hustle Hub | (*HTML5, CSS, JavaScript, React.js, Node.js, REST APIs, MongoDB*) | [GitHub](#)

- Built an end-to-end freelancing platform supporting real client-freelancer workflows by developing React-based responsive UIs and Node.js/Express REST APIs.
- Enabled secure transactions and contract workflows by integrating Stripe payment processing and MongoDB-backed data models.
- Improved user engagement and reliability by adding automated email notifications via EmailJS and offline access using Progressive Web App (PWA) feature.
- Enhanced frontend usability & responsiveness by designing modern UI components using React.js and Material UI.

Smart Health Management System | (*Java, Java Swing*) | [GitHub](#)

- Built a multi-module healthcare management system by developing a Java-based application handling patient services, inventory, lab diagnostics, and vaccine administration.
- Streamlined doctor-patient communication workflows by implementing patient registration, vitals tracking, and lab report exchange features.
- Improved patient notification efficiency by integrating SMTP-based email alerts for lab reports and medical updates.