

# KALYANI PAKHALE

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## EDUCATION

### Indian Institute of Technology, Madras (BS in Data Science and Applications)

May 2022-Pursuing

Course Work: Mathematics, Linear Algebra, Calculus, Statistics, Computational Thinking, Python

CGPA: 8.67/10

### International Institute of Information Technology, Bangalore (PG Diploma in Data Science)

Jan 2022

Course Work: Python, Inferential statistics, Hypothesis testing, Data Visualization, EDA, Maths Foundation, SQL, ML,

Linear regression, Tree models, Time series, NLP, Neural Networks, semantic and syntactic processing CGPA: 3.7/4.0

### Savitribai Phule Pune University (Bachelor of Engineering, Computer Science)

May 2013-2017

## SKILLS

<b>Programming:</b>	Java, Python, SQL, C, MongoDB
<b>Data Analysis:</b>	Python, R, Google Analytics, Excel, SQL
<b>Data Visualization:</b>	Data Visualization, Exploratory data analysis
<b>Libraries:</b>	NumPy, Pandas, Matplotlib, SciPy, ggplot
<b>Automation tools:</b>	API, UI Automation, Selenium, Jmeter, Cucumber, QTP
<b>Tools:</b>	Postman, RapidBotz, PowerBI, Tableau, GIT, Jenkins, TestNG, Maven
<b>ERP:</b>	Netsuite, SuiteTax, Coupa
<b>Framework:</b>	Agile, Waterfall, POM, BDD, AWS Machine Learning, Textract
<b>Project Management Tools:</b>	Jira, RTC, RQM, SMART, HP-ALM, Confluence.
<b>Technical skills:</b>	Machine Learning, Natural Language Processing, Neural Networks

## PROFESSIONAL EXPERIENCE

### Innov8 Digital, Jr. Data Scientist | Sept 2022 - Present

Noida, India

- Working on intelligent process automation – using AI vision technologies to extract fields from documents such as invoices using OCR, AWS Textract, and Natural Language Processing.
- Analyzed and made insights on data for gaming-based clients using time series forecasting.

### Innov8 Digital with Thomson Reuters, Sr. Automation Engineer | Dec 2021 - Sept 2022

Hyderabad, India

- Automated ERP integration, Netsuite, and SuiteTax and designed, and implemented framework, executed integration tests, and analyzed results. Worked as a lead tester for ERP automation and upgrade projects.
- In-depth experience with software including RapidBotz and HP Application Lifecycle Management Quality Center
- Designed a dashboard for data analysis of automation delivery data, REP test data, pass-fail test analysis, etc

### Accenture, Software Engineer | Sept 2017- Nov 2021

Pune, India

- Worked on manual as well as automation testing in the Financial domain using Selenium with Java having built the tool Maven with TestNG • REST API Automation and Automated API payloads in JMeter for regression testing.
- POC for project delivery among 12+ team members, regular follow-up with Clients and Developers through Scrum.

### Fusion Software Institute, Mentor | Nov 2021- Dec 2022

Remote

- Delivered course content, weekend doubt clearance, revision, and project walkthrough sessions for the Software Development, API course for 300+ students at Fusion Institute.

## PROJECTS

### Automatic Ticket Classification - NLP

This is an AI model that can automatically classify customer complaints based on the products and services that the ticket mentions using NLP. Preprocess and optimize the data using feature engineering and prepare for model training. Implement classification algorithms such as SVM, KNN, Random Forest Classifier, and Artificial Neural Networks. Compared and evaluated the algorithms using hyper-parameter tuning and K-fold cross-validation.

### Telecom churn prediction

Analyze customer-level data of a leading telecom firm, and build predictive models to identify customers at high risk of churn. Derived feature engineering and reduced PCA. Trained a variety of models, tune model hyperparameters, and finally chose the appropriate evaluation metric.

### **Bike-sharing demand prediction**

Preprocessed data, and applied various machine learning regression techniques like Decision Trees, Random Forest, and Ada boost regressor. Find the best parameter by parameter tuning using GridSearchCV and select a model which gave the least RMSE score and build a model using it.

### **House prices prediction**

Creative feature engineering and regression techniques like random forest and gradient boosting Ridge, and Lasso.

### **Loan Application (Exploratory Data Analysis)**

Credit risk analysis will help the bank to make the decision for loan approval based on the applicant's profile which controls the loss of business to the company and avoid financial losses.

### **RSVP Movies (SQL)**

SQL queries performed on the IMDb database to provide recommendations to RSVP Movies based on insights.

## **RESEARCH**

[Research Paper](#)

•“Towards Smart E-Governance in India with Awareness” Developed a web-based application for online gov policies and schemes that allow customers to apply, also suggest schemes based on validation criteria using ML (KNN) algorithm.

## **LICENSE**

### **Cognizant, Artificial Intelligence**

[Virtual Internship](#)

- Exploring customer data to identify the next steps. Understanding relational data and framing a problem statement. Building a predictive model and interpreting the results back to the business
- Developing machine learning algorithms for production. Evaluating the production ML model.

### **BCG, Data Science & Analytics**

Virtual Internship

- Business understanding & problem framing, Exploratory data analysis & data cleaning
- Feature engineering, Modeling and evaluation, Insights & Recommendations

### **PWC, Power BI in Data Analytics**

[Virtual Internship](#)

- Create a dashboard in Power BI for Claire that reflects all relevant Key Performance Indicators (KPIs).

### **TATA, Data Visualisation: Empowering Business with Effective Insights**

[Virtual Internship](#)

- Framing the business scenario, choosing the right visual. Create effective visuals based on business insights
- Effectively communicate findings and explain how it relates to each scenario.

### **British Airways, Data Science**

[Virtual Internship](#)

- Scrape and analyze customer review data to uncover findings for British Airways.
- Build a predictive model to understand factors that influence buying behavior.

### **AWS, APAC Solutions Architecture**

[Virtual Internship](#)

- Designing a simple, scalable, hosting architecture.

### **KPMG, Data Analytics**

Performed data quality and completeness in preparation for analysis

- Targeting high-value customers based on customer demographics. visualizations to present insights.

## **CERTIFICATES**

[Google IT Automation with Python](#)

[Advanced Certificate Programme - NLP](#)

[GIT](#)

[JMeter - Performance Tool](#)

[Data Science Programming Bootcamp](#)

[Python for Data Science](#)

[Data Science Toolkit](#)

[Natural Language Processing-NPTEL](#)

## **ACHIEVEMENTS**

1. Achieved “Rock Star” award from Innover digital
2. Worked as “NASA Citizen Scientist”, Accenture.
3. Secured 34,33 State Ranks in MTSE for 2 consecutive years

4. Chess player in state-level Women's Chess
5. Presenter of GTT training, Barclays
6. Core “Olympiad team” member, BS Stat Math academic cell, IIT Madras.
7. Member of Ramanujan Research Society, IITM