

# Ashwin Parthasarathy

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## Summary

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Data Science Enthusiast, seeking to work for a challenging assignment in an organisation that offers ample learning opportunities and professional growth in the field of Data Analytics .5+ years' experience in ,Backend, Automation .Possess first-hand experience in automating and enhancing applications. and have a Post-Graduation Diploma in Machine Learning, Acquired hands on experience in Machine Learning Projects using Python and Business analytics using SPSS.

## Skills

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**Technical Skills** : Python, R, AWS lambda, AWS Sagemaker.  
**Machine Learning Skills** : Regression, Clustering, Decision Tree, K-Means,Random Forest,Classification  
**Statistical Methods** : Predictive Analysis, Hypothesis Testing,Factor Analysis,Conjoint and Cluster Analysis

## Experience

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### Machine Learning engineer , Neoware.ai

Duration: May'23-Present

- Development ML models using AWS Sagemaker
- Document text extraction using Azure AI.
- Backend development for Data validation platform

### Software engineer ,Wipro Technology Solutions

Duration: Jan'22-April'23

- Integration of data sources and API's using Django
- Data visualisation using React and MUI

### Associate-Automation developer ,Cognizant Technology Solutions

Duration: May'17-Dec'21

- Automating desktop application using Sikuli robot framework
- Framework development contribution using Pytest
- Develop and maintain automation scripts based on test cases identified for automation
- Execute test cases within the Functional, Mobile, or Web Services Automation framework
- Develop, execute and enhance test automation through Robot framework, Selenium
- Operate in an Agile development environment
- Contribute to internal test automation frameworks
- Be an integral part of scrum team, driving Behaviour Driven Development (BDD),
- POC's in Robot framework for Web, Desktop, Mainframe apps and integrating with CI/CD pipeline.
- POC's in Robot framework for Desktop apps using Sikuli Library
- POC's in Robot framework for database testing in MySQL, Sqlite, MongoDB using respective DB libraries.
- POC's in Automating desktop application using Sikuli Library with Java
- POC's in Contract testing and AWS services- S3 and DynamoDB using boto3
- Contract testing and AWS iin python and typescript.
- Integrating the test framework with CI/CD Pipeline.
- Create/Update Knowledge Repository based on project/customer needs inclusive of business/ application levels requirements details in WIKI

## Projects

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- **House price Prediction using Machine Learning:** This project involved using various features variables available in the Inner-city house price dataset. Different Machine learning models like Regression, Ensemble techniques were used to analyse and predict the house prices. Also, the grid search algorithm was used to tune different parameters associated with models.  
**Skills and Tools:** Feature Selection, Model Selection, Regression, Cross Validation
- **Diagnosing Parkinson's disease using Random Forests:** This project involved using classification algorithms and Ensemble techniques to diagnose Parkinson's Disease (PD) using the patient voice recording data. Various models were used including Naive Bayes, Logistic Regression, SVM, Decision Tree, Random Forest etc. and comparison of accuracy across these models was done to finalise the model for prediction.  
**Skills and Tools:** EDA, Logistic regression, Decision Trees
- Bike Rental Prediction with CI/CD
- Keywords Extraction using Transformer on Medical Dataset
- Sentiment Classification on Amazon Food Reviews dataset with EC2 deployment
- Resume Classification using Naive Bayes
- Fine-tuning StableDiffusion with DreamBooth
- Medical Question Answering using GPT2 Model
- Patient Survival Prediction using XGBoost[Deployment with AWS ECR and ECS]

## Certifications

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- AWS Certified Machine Learning - Specialty
- Cloud Machine Learning Engineering and MLOps
- Programming in R for data sciences
- Web-Development with Python-Django.

## Education

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- B.E in Mechanical Engineering, AnnaUniversity ,Chennai (2016)
- EPGP-IIMK