

PIYUSH AGARWAL

Applied Data Scientist I

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SUMMARY

Applied Scientist with strong knowledge in Data Science, Machine Learning, Deep Learning, Natural Language Processing, Python, SQL, Computer Vision, Generative AI and LLMs and having proven track record of delivering impactful solutions and driving business growth through advanced analytics techniques, strong problem-solving skills. Being an AI practitioner, I am passionate about leveraging advanced analytics and AI technologies to solve complex problems and drive data-driven decision-making. I stay updated with the latest trends in the field and continually enhance my skills to stay at the forefront of innovation. I am seeking opportunities to work with forward-thinking organizations that value data-driven approaches and embrace the transformative power of AI. I am eager to contribute to cutting-edge projects that push the boundaries of data science, making a tangible impact.

TECHNICAL SKILLS

Languages: Python, SQL, Java

Statistics: Descriptive Stats, Inferential Stats, Data Analysis, Feature Engineering, Insights Extraction and Summarisation.

Machine Learning: Linear Regression, Logistic Regression, Decision Trees, Random Forests, Naive Bayes, SVM, Bagging and Boosting, XGBoost, KMeans Clustering, DBSCAN Clustering, KNN Classifier.

Deep Learning and NLP: Artificial Neural Networks, Convolutional Neural Networks, Recurrent Neural Networks, Transformers, Activation Functions, Optimisers, Cost Functions, Word Embedding.

Libraries and Frameworks: TensorFlow, Keras, Pytorch, LangChain, LlamaIndex, OPENAI API, Hugging Face, Pandas, Numpy, SciKit Learn, NLTK, SciPy, Seaborn.

Tools: Jupyter Lab, Visual Studio, Pycharm, Git, Colab, Command Prompt, AWS/S3, Confluence, Jira.

EXPERIENCE

Applied Scientist I

Jan 2024 – Current

Tekion, Cloud Native Automotive Platform

Bangalore, India

- Analytics GPT Insights :- Worked on to leverage OPENAI capabilities for Insights and Summarization tasks and built Business actionable Insights delivery to clients leveraging the power of GPT. Provided clients monthly expense/gross insights across different dealership's departments and across different time frames.
- Driving License Scanner and Validation :- Built identity document detail extraction and authentication for business clients to automate the process of check-in fast and avoid forgery. Able to achieve 94 percent accuracy across 30 US states' identities cards with the help of LayoutLMV3 Model.

Associate Applied Scientist

Jan 2022 - Dec 2023

Tekion, Cloud Native Automotive Platform

Bangalore, India

- Vehicle Parts Recommendation:- Created impactful recommendations that helped service advisors to quickly select relevant and precise parts for different jobs need to be done for vehicle servicing. Able to achieve 95 percent recommendation predictive power with moderate coverage(Organizational paid service data i.e 45 percent of OEMs data) of vehicle service transactions.
- Vehicle Propensity and Service Recommendation :- Worked on propensity of products by driving out useful insights/variables from the data. Improved performance to 93 percent with the help of feature engineering and XgBoost technique, which really helped dealerships to maintain inventory for sales for next three months, along with service parts to be used most in upcoming services.
- General Ledger Account Mapping :- Created the G/L Account Mapping tool to automate accounting ledgers and to increase the efficiency of tech-team. Reduced time to 4 hours from 3-4 days. Able to cover 80 percent transactions with 95 percent accuracy with the help of Random Forest Classifier and Heuristic approach.
- Invoice User Preference :- Worked on User Preference Services for Invoice Management of vendors which is also based on LayoutLMV3 document detail extraction, and tweaked the uncovered areas with user based approach. Created a great impact for the clients.

Data Scientist Intern

Aug 2021 - Dec 2021

HighRadius, Autonomous Finance Platform

Hyderabad, India

- Worked on Account Receivables and Account Payables Data to find out and forecast accounting insights and patterns.
- Refined Code-Bases and Performed test cases to validate and increase coverage of pipelines.

EDUCATION

CHANDIGARH UNIVERSITY

Bachelor of Engineering, Computer Science (AI-ML)

Mohali, India

2018 - 2022

SDP SR. SEC. SCHOOL

Higher Secondary Education

Jhunjhunu, India

2016 - 2017

SDP SR. SEC. SCHOOL

Secondary Education

Jhunjhunu, India

2014 - 2015

CERTIFICATIONS

Machine Learning - Coursera

Relevant courseworks - Supervised Learning Algorithms, Unsupervised Learning Algorithms, Exploratory Data Analysis Best Practices

Neural Networks and Deep Learning - Coursera

Relevant courseworks - Mathematics behind Neural Networks, Working of Neural Nets, Forward Propagation, Backward propagation

Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization - Coursera

Relevant courseworks - Activation Functions, Loss Functions, Optimisers, Hyperparameter Tuning, Regularisation for improving performance of Neural networks

Sequence Models - Coursera

Relevant courseworks - Introductions to Recurrent neural networks and journey to attention mechanism

Data Science and Machine Learning Training - InternShala

Relevant courseworks - Practical Learning of Machine Learning and Data Exploration

EXTRACURRICULARS

Participations

Attended IAF SSB, Dehradun

Participated in Machine Learning Hackathons conducted by Analytics Vidhya

Elected as the leader of the house to conduct events and assembly during HSE)

Attended various seminars organized by Chandigarh University on Corporate, Competitive and Spiritual World)

Elected as the leader of the Badminton Team to represent in the interSchool BCT)

Interests

Financial Markets and Trading — Travelling — Sports — Reading Blogs on Technologies — Music