

Nipunika Jain

Data Scientist

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PROFESSIONAL SUMMARY

Full-stack Data Scientist with 5 years of relevant and overall 8 years of IT experience. Skilled in owning end to end responsibility of Data Engineering, Model Development & Deployment of machine learning solutions at scale to deliver high-quality outcomes with strong proficiency in coding and cloud platforms. Ability to identify high ROI AI/ML based use cases in collaboration with business/product goals.

TECH STACK

AI/ML	Regression (linear, Tree based), Classification (logistic, Tree based), Ensemble Learning – Bagging and Boosting, Clustering, Dimensionality Reduction, Time series Forecasting, ANN, CNN, Hyper-Parameter Tuning, TensorFlow, Keras, MLflow, Scikit-learn, NumPy, Pandas
Cloud Platforms/Coding	Python, Pyspark, SQL, Microsoft Azure (Databricks, Functions, Data Factory, Form Recognizer, Logic Apps, ADLS), PowerBI, Power Automate, PowerApps, GCP
Data Stores	MySQL, SQL Server Access
DevOps	Docker, Kubernetes, Flask, Grafana, Azure Functions, WSGI, Nginx, Azure DevOps - Build and Release, CI/CD pipelines
Operating Systems	Linux, Windows

EXPERIENCE

SENIOR CONSULTANT - ANALYTICS & COGNITIVE | DELOITTE | Pune, India / Remote 08/2022 – Present

Deloitte drives progress. Our firms around the world help clients become leaders wherever they choose to compete. Deloitte invests in outstanding people of diverse talents and backgrounds and empowers them to achieve more than they could elsewhere.

SENIOR DATA SCIENTIST | AIONEERS TECHNOLOGIES INDIA PVT. LTD | Pune, India / non - Remote 04/2021 – 08/2022

aioneers is a software company with its headquarter in Mannheim, Germany. The company develops an End-to-End Supply Chain - and Execution Management platform. Primary involvements included developing recommendations for in-house AIO Impact product as well as developing Demand Forecasting models for various clients by utilizing ML/DL algorithms and cloud platform.

- Developed and deployed Time-Series demand forecasting model at different hierarchy levels using LGBM algorithm and ensembling techniques which improved accuracy by approx. 30% from client baseline model which in-turn improved the entire demand-supply model for the client resulting in huge savings.
- Developed Azure delta lake architecture for data ingestion. Pyspark based data ingestion pipelines and deployed over Azure Databricks and Datafactory.
- Designed and developed internal library assets comprising utility functions and further transformed the code into Python Wheel package and developed build and release pipelines for the collaboration within the team.
- Developed a POC for in-house products which provided recommendations for various services that tool provides to customers.
- Built the complete Data Science team and processes from scratch leading 5 Data Scientists.
- Technologies:** Ensemble Learning – Bagging and Boosting, Time series Forecasting, Hyper-Parameter Tuning, MLflow, Python(Scikit-learn,

TECHNICAL ENGINEER - DATA SCIENCE | ECOLAB FOOD, SAFETY & HYGIENE SOLUTION PVT. LTD. | Pune, India /non- Remote | 07/2019 – 04/2021

Ecolab (ECL) is the global leader in water, hygiene and infection prevention solutions and services globally. With annual sales of \$12 billion and more than 44,000 associates. Primary involvements included identifying high ROI AI/ML based use cases aligning with business goals. Developing heuristic/OR based recommender systems for Dynamic Order Fulfilment and optimized Lane predictions with projected savings of \$100K+ per year

- Developed a Heuristic/OR based recommender system which provided Warehouse Recommendations for new orders with projected savings of \$70,000/year and further deployed through CI/CD process over Azure databricks and datafactory.
- Developed a Heuristic Model based on Ranking Methodology to provide recommendations with projected savings of \$40,000/year.
- Worked as an Individual contributor in capacities such as directing the interaction with Stakeholders along with understanding the business requirements, performing ad-hoc analysis/POC's and delivering solutions according to the requirements.
- **Technologies:** Python, Py-Spark, Azure Databricks, Azure DevOps, Azure Datafactory, PowerBI, PowerApps, Logic Apps, Azure Functions.

APPLICATION DEVELOPMENT ANALYST | ACCENTURE SOLUTIONS PVT. LTD | Pune, India / non-Remote 07/2014 – 07/2019

Accenture is a global professional services company with leading capabilities in digital, cloud and security with combining unmatched experience and specialized skills across more than 40 industries. Primary involvements included developing ML based prediction and classification models which improved sales by 15% and optimized procurement process for the clients.

- Created Developed a Sales prediction model using Decision Tree and Random Forest regression which provided prediction on the sales of products based on previous observations which led business to further decide on the life cycle of the product.
- Developed a Classification model to classify the Vendors in terms of Reliable and Non-Reliable. The results helped in prioritizing Procurement during urgent demands.
- The sales prediction and classification models improved the overall client business by 22% (approx.)
- Built Worked as a developer in a team of 5 data scientists.
- **Technologies:** Python, Machine Learning, PowerBI, Tableau, Java (core), Documentum, EDI (Sterling Integrator)

PERSONAL PROJECTS

- Developed a Data Drift Detector model using Random Forest Classifier
- Deployment of a ML/DL based model as a Web App using Flask for front-end and WSGI, Nginx as back-end utilizing Docker as a containerization platform
- Fashion classification model using transformer CNN (Xception) model

EDUCATION

BACHELOR OF TECHNOLOGY | NMIMS University | Mumbai, India 2010– 2014

- Major in Electronics & Telecommunication with GPA 3.35 on 4
- Member of Campus Placement committee

CERTIFICATIONS

MLOps Fundamentals Coursera - Google	2022
MLOps ZoomCamp DataTalks Club	2022
Cloud Digital Leader Google Cloud Platform	2022

PUBLICATIONS & AWARDS

IEEE Analysis of Vital Signs of Identity: Finger Biometric Method employing Infrared Imaging	2012
TOP PERFORMER AWARD Accenture	2015

PROFILES

LinkedIn: <https://www.linkedin.com/in/nipunikajain/>
Github: <https://github.com/nipunikajain>
Blog: <https://medium.com/@nipunikajain>