


PRATIBHA CHITTA

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PROFESSIONAL SUMMARY

Data Science professional with 4+ years of experience leveraging machine learning and statistical techniques to develop predictive models and drive actionable insights. Demonstrated ability to implement algorithms—ranging from regression to deep learning—in Python and R while ensuring data integrity and compliance. Proven track record in transforming complex datasets into clear, decision-driving reports for key stakeholders.

TECHNICAL SKILLS

- **Certifications:** Microsoft Certified: Power BI Data Analyst Associate, AWS Data Analytics, AWS Cloud Foundations
- **Programming Languages:** Python, SQL, PL/SQL, R, C/C++
- **Databases:** MySQL, PostgreSQL, SQL Server, MS Access, MongoDB, DynamoDB, Oracle
- **Tools & Technologies:** Tableau, Power BI, SAS, Alteryx, Airflow, QlikView/Qlik Sense, AWS, Azure, Databricks, Teradata, SharePoint, Confluence, JIRA, Trello, GCP, BigQuery, Kafka, PySpark, S3, EC2, EKS, Redshift, Lambda, DynamoDB, Glue, Google Cloud Storage, Cloud Computing
- **Frameworks & Methodologies:** PyTorch, TensorFlow, Keras, Git, Agile, Scrum, Kanban, Lean-Agile, Anaconda, Scikit-learn
- **Statistical Techniques:** EDA, predictive modeling (Neural Networks, Decision Trees, SVM, KNN, PCA, Random Forests), regression, clustering, classification, Feature Engineering, Gradient Boosting
- **Domain Expertise:** Credit Portfolio Management
- **Other Skills:** Business analysis, model training, data manipulation, machine learning, data visualization, data mining, deep learning, text mining, NLP, QA, mathematics, e-commerce, business reviews, statistics, Root Cause Analysis, automation tools

WORK EXPERIENCE

Systemsoft Tech

Oct 2024 - Present

Data Analyst

Dallas Metroplex, TX

- Analyzed and prepared large datasets using Python and R for statistical modeling and feature engineering, ensuring data accuracy and adherence to compliance standards.
- Developed interactive dashboards and real-time reporting solutions with Microsoft SQL Server, Power BI, and Tableau to deliver actionable insights to key stakeholders.
- Implemented predictive models using machine learning techniques such as Linear Regression, Decision Trees, Random Forest, and SVM in Python with scikit-learn, supporting data-driven decision making.
- Conducted GAP analysis to identify process improvements and align data strategies with overall business objectives and regulatory requirements.

WISEcode

Jan 2023 - Jun 2023

Data Science Intern

Chicago, IL

- Executed comprehensive analysis of a 1.6M-entry food product database using Python libraries (Pandas) to transform raw data into structured datasets for modeling.
- Developed a Recurrent Neural Network (RNN) using TensorFlow and PyTorch, achieving 98% accuracy by leveraging LSTM layers for sequential data processing.
- Enhanced deep learning models through hyperparameter tuning and dropout regularization with Keras Tuner to optimize performance.
- Applied advanced feature engineering and dimensionality reduction techniques with PCA to improve data processing efficiency by 40% while ensuring data integrity.

BME UIC

Jan 2022 - Dec 2022

BME Analyst

Chicago, IL

- Led requirement elicitation sessions with faculty to gather, analyze, document business requirements, aligning with project goals
- Conducted business process modeling with Lucidchart, UiPath Process Mining to identify inefficiencies, define KPIs & optimize workflows.
- Collaborated in Agile/Scrum teams, using JIRA for project tracking, backlog refinement, and sprint planning for process automation initiatives. Managed multiple projects, adjusting priorities dynamically to align with business needs.
- Utilized Power BI and SQL to analyze large datasets, track financial trends, and generate actionable insights. Enhanced data visibility for senior management by designing SQL-driven dashboards for performance monitoring.

P. Kothari Investments Inc

Aug 2020 - Aug 2021

Data Engineer

Mumbai, India

- Analyzed terabytes of financial data using SQL queries and developed an automated ETL pipeline using Apache Spark.
- Designed scalable data architecture with Kafka, ensuring data integrity and accessibility.
- Implemented ETL pipelines with AWS Glue for automated data ingestion and transformation.
- Developed data validation routines using PySpark to ensure accuracy.

EDUCATION

University of Illinois at Chicago | *Master of Science, Business Analytics*

University of Mumbai | *Bachelor of Engineering, Computer Engineering*