

## PROFESSIONAL EXPERIENCE

Data Scientist with 3 years of experience in transforming complex data into actionable insights. Proven expertise in data modeling, machine learning, and AI to drive strategic decisions. Strong technical skills, with a collaborative approach to problem-solving and effective communication abilities.

## SKILLS

**Core Competencies:** Machine Learning, Statistical Modeling Techniques, Deep Learning

**Machine Learning Algorithms:** Linear and Logistic Regression, KNN, Decision Tree, Random Forest, AdaBoost, XGBoost, SVM, Naïve Bayes, K-means Clustering, time series analysis, Quantitative Research (Statistical Modeling)

**Data Mining & Analysis:** Classification, Clustering, Pattern Analysis, Sampling, Simulations

**Deep Learning Algorithms:** Neural Networks, ANN, CNN, RNN, LSTM, Back Propagation

**Natural Language Processing (NLP)/LLM:** Transformers, TF-IDF, Word2Vec

**Database:** MySQL, CRUD operations, Joins

**Programming Languages & Tools:** Python, SQL, Spark, Hadoop, R, PySpark

**Libraries & Frameworks:** NumPy, Pandas, SciPy, Scikit-learn, Seaborn, Matplotlib, Flask, TensorFlow, Keras, NLTK, PyTorch

**Operating System & Web Stack:** Linux, Windows, Flask

**Cloud and Version Control:** AWS, GitHub, DVC, Big Data, Docker, Jupyter Notebooks

**Maths & Stats:** Statistics, Linear Algebra, Probability, Hypothesis Testing, Filter methods for feature Selection Technique

**Soft Skills:** Strong problem-solving and analytical skills, Effective Communication skills, analytical and problem-solving abilities, Continuous Learning

## WORK SUMMARY

- Collected, cleaned, and preprocessed terabytes of data, converting raw data into actionable insights.
- Developed and implemented advanced statistical and machine learning models to predict outcomes and optimize decisions, increasing operational efficiency by 15%
- Created visualizations and reports using Matplotlib and Tableau to communicate data insights to both technical and non-technical stakeholders.
- Identified key areas for process improvement and implemented algorithms that increased the efficiency of resource allocation.
- Worked with data engineers to refine data collection and analysis techniques, boosting data integrity and operational analytics capabilities
- Created visualizations and reports to communicate data insights to both technical and non-technical stakeholders using tools like Matplotlib and Tableau.
- Presented analytical findings and complex concepts to both technical and non-technical stakeholders, facilitating improved business strategies based on data-driven insights.
- Actively participated in cross-functional teams to ensure the alignment of analytics solutions with business objectives.

## WORK EXPERIENCE

**Jr. Data Scientist | Penta Software Pvt. Ltd. Pune**

Oct 21 - Present

**Personal Loan Lookalike Scorecard Development**

Jan 23 – Mar 23

- Developed a risk-minimizing predictive model for personal loans to reduce financial risks.
- Collected data from Hadoop, conducted EDA, and developed an end-to-end PD model using Logistic Regression, and Collaboration with cross-functional teams like BA, project manager, and Sales team.
- increasing approval accuracy by 15%. and 56.08% Gini by computing **WOE, IV, and correlation**.

**Credit Risk Control System for Auto Loans**

Dec 2021 – Nov 22

- Built a Two-Wheeler Risk Scorecard to improve financial security by collaborating with cross-functional teams.
- Conducted comprehensive data analysis, validation, and industry research to construct an effective **risk assessment model**
- Enhanced model **performance by 5% through hyper-parameter tuning**, and ensured functionality and integration by creating and testing an API.

## EDUCATION

**Masters of Technology (Savitribai Phule Pune University)**

Department of Scientific Computing, Modelling and Simulation (CGPA – 6.5)

Aug 2021 – May 23

**Bachelor of Engineering in Mechanical Engineering, (Matoshri College of Engineering)**

Savitribai Phule Pune University (66%)

Jul 2016 – June 21

## CERTIFICATIONS

## ACTIVITIES

MTech Placement Student Council Representative

Oct 2022 — Dec 2022