

# ARJUN DESHMUKH

## Senior Data Science Manager | AI & Analytics Leader

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Location: Mumbai, Maharashtra, India

## PROFESSIONAL SUMMARY

Result-driven and strategic Data Science Leader with 12+ years of experience in delivering AI-driven business solutions across BFSI, Retail, and Healthcare sectors. Proven expertise in managing large-scale data science teams, architecting ML systems, and driving actionable insights from complex datasets. Strong blend of leadership, statistical modeling, machine learning, MLOps, and stakeholder management. Adept at translating business problems into scalable AI solutions.

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## CORE COMPETENCIES

- ✓ Machine Learning & Deep Learning
  - ✓ Statistical Modeling & Forecasting
  - ✓ Natural Language Processing (NLP)
  - ✓ MLOps & Model Deployment
  - ✓ Cloud Platforms (AWS, GCP, Azure)
  - ✓ AI Strategy & Roadmapping
  - ✓ Cross-functional Team Leadership
  - ✓ Business Intelligence & Data Visualization
  - ✓ Big Data Analytics (Spark, Hadoop)
  - ✓ Data Governance & Ethics
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# PROFESSIONAL EXPERIENCE

Senior Data Science Manager

Infosight Analytics Pvt. Ltd., Mumbai

*Jan 2019 – Present*

- Led a 15-member data science team to deliver 25+ ML solutions across multiple enterprise clients.
- Architected an end-to-end fraud detection platform for a major Indian bank, reducing false positives by 38%.
- Designed and deployed NLP models for insurance document classification with 92% accuracy using BERT and spaCy.
- Spearheaded migration of legacy models to an MLOps pipeline using MLflow and Docker, cutting deployment time by 60%.
- Collaborated with C-suite executives to define AI strategy, data roadmap, and ROI metrics.

Data Science Lead

Tata Consultancy Services (TCS), Mumbai

*Aug 2014 – Dec 2018*

- Delivered predictive analytics and customer segmentation projects for Fortune 500 clients in retail and telecom.
- Developed churn prediction models using XGBoost and LSTM networks, improving retention strategies.
- Integrated data pipelines using Spark on AWS EMR for large-scale model training.
- Mentored junior data scientists and led internal training sessions on Python and model interpretability.

Senior Data Analyst

Mu Sigma, Bengaluru

*Jun 2011 – Jul 2014*

- Executed pricing optimization and demand forecasting models for FMCG clients.
  - Built interactive dashboards in Tableau for real-time executive reporting.
  - Applied regression and time series forecasting (ARIMA, Prophet) to optimize supply chain efficiency.
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## TECHNICAL SKILLS

Languages: Python, R, SQL, Scala

ML Frameworks: Scikit-learn, TensorFlow, PyTorch, Keras, XGBoost

NLP Tools: spaCy, NLTK, Transformers (HuggingFace), OpenAI APIs

Data Engineering: Apache Spark, Hadoop, Airflow, Kafka

Cloud: AWS (S3, EC2, SageMaker), GCP (BigQuery, Vertex AI), Azure ML

MLOps: MLflow, Docker, Kubernetes, CI/CD (Jenkins, GitHub Actions)

Databases: PostgreSQL, MongoDB, Snowflake

Visualization: Power BI, Tableau, Plotly, Dash

Version Control: Git, GitLab, Bitbucket

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## EDUCATION

Master of Science (M.S.) in Data Science

Indian Institute of Technology (IIT) Bombay

Graduated: 2011 | GPA: 9.2 / 10

Bachelor of Engineering (B.E.) – Computer Engineering

University of Mumbai

Graduated: 2009 | Percentage: 80.5%

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## CERTIFICATIONS

- Certified TensorFlow Developer – TensorFlow Certificate Program, 2021
  - AWS Certified Machine Learning – Specialty, 2020
  - Data Science Leadership Certificate – HarvardX, 2022
  - Google Cloud Certified Professional Data Engineer – 2021
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## PUBLICATIONS & SPEAKING

- "Scalable MLOps in Enterprise AI" – Paper presented at NASSCOM AI Summit 2023
- Guest Speaker: India AI Conference 2022 – "Operationalizing NLP in BFSI"
- Published blog series on Medium: "Explainable AI for Executives" – over 50K reads

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## KEY PROJECTS

### AI-Driven Risk Scoring System – BFSI Sector

- Developed credit risk scoring model using Gradient Boosting and Explainable AI (SHAP).
- Integrated with loan origination system, improving risk-based pricing accuracy.

### Healthcare Claims Fraud Detection – NLP + Deep Learning

- Built claim validation engine using CNN and BiLSTM models on unstructured medical claims.
- Achieved 89% precision in flagging fraudulent patterns.

### Retail Demand Forecasting Platform – Time Series + ML

- Designed ensemble models combining ARIMA, Prophet, and Random Forests.
- Reduced stockouts by 21% and improved supply chain planning.

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## ACHIEVEMENTS

- ✓ Featured in Analytics India Magazine’s “Top 40 Under 40” – 2023
- ✓ Received “Data Science Excellence Award” at Infosight Analytics – 2021
- ✓ Recognized as Mentor of the Year – 2020
- ✓ Filed 2 patents on scalable AI pipelines and model monitoring systems

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## STRENGTHS

- ✓ Visionary Leadership with Technical Depth
- ✓ Strategic Decision-Making & Business Alignment
- ✓ Passion for Building Data-Driven Cultures
- ✓ Effective Communication with Technical & Non-Technical Stakeholders

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## PERSONAL DETAILS

Date of Birth: 10th February 1987

Languages Known: English, Hindi, Marathi

Nationality: Indian

Address: A-203, Hillcrest Heights, Andheri East, Mumbai – 400093

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## **DECLARATION**

I hereby declare that the information mentioned above is true to the best of my knowledge.

Date: 4th October 2025

Place: Mumbai