

# Harmohit Singh

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**Summary** — With 12 years of experience in data science across diverse sectors, I excel in applying ML/AI for impactful projects and product innovation, adept at transforming complex data into actionable insights and fostering team collaboration.

## Skills

**Technologies:** Machine Learning, Deep Learning, Python, Tensorflow, Keras, PySpark, Bash, Gen AI, AWS

**Other skills:** Product Development and Innovation, Data Analysis and Interpretation, Data Visualization and Communication, Cross-functional Collaboration

## Experience

### Paytm

*General Manager - Data Science — Apr '23 – Present, Gurugram, India*

Led ML and Gen AI initiatives across Central AI and Ads ML teams, designing scalable ML pipelines and mentoring a team of 5 data scientists. Spearheaded end-to-end solutioning, development, deployment, and continuous optimization of ML pipelines and Gen AI solutions.

- Optimized the ML pipeline in the Ads ML team, enhancing accuracy and efficiency. Upgraded the data pipeline by adding features and transitioned the algorithm from tree-based models to neural networks, driving an average **20% increase in ad conversion rates** across app properties
- Successfully delivered projects predicting customer click behavior and churn (used XGBoost and ANN), enhancing business decision-making.
- Established A/B testing pipeline and sustained model improvement, achieving a consistent **lift of 15%**
- Built AI solutions, such as a natural language based BI tool enabling rapid decision-making for non-technical users, and voice-based solutions enhancing customer support efficiency. These solutions **resulted in a 90% reduction in man-hours and a 60% decrease in employee costs**
- Implemented cost-saving measures and optimized various processes using data engineering across multiple projects, resulting in a **90% reduction** in compute resources
- Engaged in the decision-making and implementation of app modifications to **enhance traffic and engagement** across multiple businesses. Utilized data science and analytics (with A/B testing) to drive data-informed decisions

### EXL Services

*AVP - Data Science — Sep '21 – Apr '23, Gurugram, India*

Developed and deployed machine learning solutions addressing attrition, retention, and cross-selling challenges, while managing end-to-end stakeholder engagement, including strategic leadership, delivery oversight, team development, and business relations. Led a multidisciplinary team of data scientists, analysts, data engineers, and project managers.

- Implemented a propensity model (using XGBoost) for call routing, **identifying at-risk customers and directing them to specialized retention teams**. This approach reduced call transfers and handle time while enhancing overall call ratings. Achieved **lift of 10%**
- Migrated ML model scoring and training workflows to a custom AWS-based platform. Implemented ML pipeline for model retraining, evaluation, and scoring. This **reduced infrastructure costs to 1/8th** by eliminating licensing fees
- Oversaw **team and revenue growth**, business and relationship development, and client/stakeholder management. During my tenure, **team size grew by approximately 20% and revenue increased by about 24%**

## Epsilon

*Senior Data Scientist — Dec '18 – Aug '21, Bengaluru, India*

Directed the full machine learning lifecycle, from stakeholder engagement to solution deployment and productionization. Oversaw and supported a team of developers and data scientists through mentoring and management.

- Designed and deployed multiple **ML models (XGBoost and ANN) to develop recommendation engines** for diverse clients, including hotel chains, retailers, and consumer finance institutions. Achieved notable campaign success, with **300% revenue growth, 7% increase in open rates, and 21% improvement in click through rates**
- Utilized **advanced algorithms (ANN, NN embeddings, XGBoost) and champion-challenger approach** to build **ML pipelines**, automating model refresh, enhancement, deployment, and performance monitoring
- Spearheaded **internal initiatives, building code pipelines** and adding features for streamlined modeling and analysis, saving team's time and enhancing capabilities

## Transorg Analytics

*Data Science Lead — Oct '14 – Nov '18, Mumbai, India*

Worked as a Data Scientist/Analytics Consultant and managed a team of data scientists to assist client in analytics-based business solutions.

- Established big data architecture for a payments bank, enabling organization-wide dashboards and advanced machine learning applications. **Automated the whole process with PySpark and bash scripts**. Implemented targeted campaigning with a 360-degree customer view, resulting in a **response rate increase of 150%**
- Worked with an AMC to develop a redemption prediction model ( **11% error**) and created a model for targeted product offerings and upgrades for a credit card company, **contributing to revenue growth of \$70 million**

## AbsolutData Analytics

*Business Analyst — Sep '12 – Feb '14, Gurugram, India*

- Utilized predictive analytics to identify potential customers for a fashion brand in specific USA regions
- Conducted trend analysis in the travel and online booking sector to inform product development and marketing strategies

## Education

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### PEC University of Technology, Chandigarh, India

*B.Tech. in Electronics — Jul '08 – May '12*