

Chandrajeet Pratap Singh

Lead Data Scientist - Global Market and Customer Insights

I am a problem solver, a team player, and a lifelong learner. I am seeking a role where I can leverage my skills and experience to create value and impact for the organization, environment and humanity. I believe in creating novel solutions to cater business specific needs.

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ACHIEVEMENTS

Employee of the Year (03/2024) [↗](#)

1 in 500 employees, awarded for significant business accomplishments during FY2023. Awarded by Country Manager, John Deere India

GATE - Mechanical Engineering (03/2016)

Percentile- 99.7, All India Rank-694



SKILLS

Python SQL Statistics Power BI TensorFlow Machine Learning Deep Learning NLP Transformers
Reinforcement Learning Adobe Analytics Full Stack JavaScript CSS HTML AJAX UI/UX
Solution Engineering Geospatial Analysis PyTorch Data Pipeline ML Pipeline Consulting Statistics



EXPERIENCE - 6 YEARS

Lead Data Scientist

John Deere India Pvt. Ltd.

05/2023 - Present

Responsibilities/Tasks

- **Big Data Web Analytics** (Databricks, Power BI, RLS) - Developed a Self-Service live dashboard, reducing huge license cost, reduction in number of stakeholder data query requests. 4bn+ rows, 1k columns, 50+ query requests every month. \$2M/annually savings.
- **Data Visualization** (Power BI, DAX) - Developed a live dashboard that provides critical insights to leadership and field personnel by showing dealership performance metrics, product positions, and competitive marketing strategies. Achieved using a 4 million-row dataset and supported a business worth \$250,000. 95% effort reduction.
- **Database Pipeline** (SQL Server, Python) - Developed and streamlined data management processes, significantly reducing the resources required to maintain the database and minimizing operational efforts. 90% effort reduction.
- **Data Security** (AD Groups, Row Level Security, Python) - Automated data security and simultaneously streamlined 42 dashboard URLs into a single dashboard URL. More than 95% effort reduction.
- **Geospatial Analysis** (ArcGIS, Python) - Deployed an algorithm to classify marketing tactical activities in respective villages using hub-and-spoke model approach and real-time India Tractor Industry data.

Data Scientist

John Deere India Pvt. Ltd.

10/2022 - 04/2023

Responsibilities/Tasks

- **Search Engine** (NLP, Flask) - Developed a search engine that assists the customer support team in searching solutions, cases, and warranty information. Applied NLP techniques such as data cleaning, categorization, and sentence transformers for indexing and retrieval. Increased search result relevance from 10% to 90%.
- **Full Stack** (OKTA, PHP, MySQL, JavaScript, Linux) - Developed and deployed a website for dealer annual wholesale credit analysis, leading to a remarkable 90% reduction in analysis efforts.



EXPERIENCE - 6 YEARS

Data Analyst

John Deere India Pvt. Ltd.

09/2021 - 04/2023

Responsibilities/Tasks

- **Repeat Customer Analysis** (Power BI, DAX) - Applied Recency, Frequency, and Monetary (RFM) analysis to a dataset of 230,000 retail records to identify a sales potential of \$180 million.
- **Web Scraping** (Selenium, Python) - Identified potential leads by extracting data from Japanese Dairy company websites like yield, revenue, profit, farm size, and cattle size. Used regex and BERT question-answering model.

Senior Engineer

John Deere India Pvt. Ltd.

07/2018 - 08/2021

Responsibilities/Tasks

- **Reinforcement Learning** (Python, MATLAB, TensorFlow) - Enhanced operator comfort by optimizing suspension parameters using the Deep Deterministic Policy Gradient (DDPG) algorithm, resulting in a significant 60% improvement in the ride index.
- **Multibody Dynamics Analysis** (SimScape, MATLAB, Simcenter, Amesim, Ncode) - Responsible for full vehicle body dynamics, cab suspension correlations, steering handling correlations, Multiphysics co-simulation, signal processing, and mechanism evaluation.



PROJECTS

Path Finder Visualizer (01/2020 - 02/2020) [↗](#)

- (JavaScript, HTML, CSS) Understanding the concepts of Data Structures, Algorithms, and Object-Oriented Programming (OOPs) using plain JS, CSS and, no frameworks

3D Printer - IIT Kharagpur (05/2017 - 08/2017)

- (Arduino, Merlin Framework) Built a 3D printer that enhanced the technology capabilities within the IIT Mechanical Department lubrication lab.



CERTIFICATES

Analytics Development Program - John Deere
(09/2021 - 05/2023)

Working with 3 business functions 8 months each, gives a unique platform to understand various aspects of the business

Sequence Models (11/2022) [↗](#)

Andrew NG, Coursera - Deep Learning Specialization

Convolutional Neural Networks (08/2020) [↗](#)

Andrew NG, Coursera - Deep Learning Specialization

Structuring Machine Learning Projects (08/2020) [↗](#)

Andrew NG, Coursera - Deep Learning Specialization

Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization (08/2020) [↗](#)

Andrew NG, Coursera - Deep Learning Specialization

Neural Networks and Deep Learning (08/2020) [↗](#)

Andrew NG, Coursera - Deep Learning Specialization



EDUCATION

MTech - Mechanical System Design

IIT Kharagpur, India

07/2016 - 06/2018

CGPA - 7.9/10

Project

- **Project** (Arduino Uno, MATLAB) - 2D image plotter using image processing and real-time.
- **Thesis** (Adams, Ansys, SolidWorks) - Design and analysis of Anti-Climbing Mechanism for High-Speed Railways.

BTech - Mechanical Engineer

JSS Academy of Technical Education, Noida

07/2012 - 06/2016

Percent - 69%

Project

- **Project** (C language) - Developed program to split expense evenly between friends



HOBBIES

Learning and Playing Piano for last 6 years

Reading

DIY enthusiast