

# Hemant Kumar

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## TECHNICAL SKILLS

**Languages:** R, Python, MySQL, MongoDB, Cassandra

**Packages:** pandas, pyspark, numpy, sklearn, nltk, tensorflow, selenium, BeautifulSoup4, pytorch, keras, Hadoop, Hive

**Developer Tools:** Linux (Ubuntu), VS Code, Jupyter, Pycharm, Git, GitHub

**Analytics Tool:** CleverTap, Metabase, Tableau, Power BI

**Data Handling Skills:** ETL, Data Scraping, Data Wrangling, Data Extraction, Data Cleaning, Data Integration

## EXPERIENCE

### DriveU

Feb 2023 - Present

*Operations Analyst*

*Bengaluru, Karnataka*

- **Executed Hexagonal Zone Analysis of Supply and Demand Forecasting on a weekly trend:** improves the fulfillment with a 70 % success rate in accuracy.
- **Created Behavior Model and Sentimental Analysis of Driver Performance:** improves the quality and increases the revenue by 30%
- **Collaborated with 6+ cross-functional departments to develop a self-service optimized dashboard:** improves operational efficiency and facilitates manager discussions
- **Deployed Multiple ETL pipeline and Automated Google Sheets :** to optimize data integration and transformation, enhancing data quality and analysis capabilities
- **Performed operational and marketing budget forecasts:** resulting in a 25% increase in return on investment
- **Examined User's Cohort Analysis using RFM model:** 15 % growth in new user acquisition
- **Analyzed and Optimized Incentive:** cutting down expenses by 30%

### Indian Statistical Institute

Oct 2021 - Mar 2022

*Master Thesis Student*

*Kolkata, West Bengal*

- **Density Functional Theory's optical characteristics using Deep Neural Network:** Analysis of material through Ab Initio software SIESTA

### Shri Shankaracharya Technical Campus, Junwani

June 2020 – July 2021

*Project Trainee*

*Bhilai, Chhattisgarh*

- **Research on electric, optic, & magnetic properties of nano-materials:** enhance the analyze and visualize skills

## PROJECTS

**Incentive Engine** | *python, sql(MySQL), MongoDB, pandas, pyspark*

- Integrated real-time data streams from multiple sources to dynamically analyze supply and demand behavior patterns, and developed a Gradient Boosting algorithm to ensure timely and relevant incentive delivery.

**Dispatch System** | *pandas, numpy, plotly, statsmodels, scipy, tensorflow, pytorch, gymnasium, pettingzoo*

- Developed a Multi-Agent Reinforcement Learning algorithm that reduces user patience times, maximizes earnings, and ensures system efficiency.

**Cohort Analysis of Business Segmentation** | *python, sql(MySQL), MongoDB, plotly, pandas, scipy, numpy*

- Execute Queries to extract data from multiple sources and performed exploratory data analysis and feature engineering. I implemented clustering algorithms based on business segmentation that increased subscription purchases, coupon redemption, and customer retention.

**Serviceable Area Optimization** | *python, sql(MySQL), MongoDB, sklearn, matplotlib, pyspark, pandas, numpy, pickle*

- Create a polygonal map for every pincode in India, and implemented the K-Nearest Neighbors algorithm to identify the nearest pincode based on a given latitude and longitude. This approach will enhance communication and strategic decision-making during discussions between clients and managers.

## ACHIEVEMENT/EXTRACURRICULAR

- Centre for Basic Sciences Student Fellowship by Pt. Ravishankar Shukla University | Rs 5000 per month | 2017-2022
- Prime Minister's Trophy MCM Scholarship by SAIL, Bhilai Steel Plant | Rs 7,500 per year | 2017-2022
- Secured the best poster presentation at the International Conference "MaterialTECH2022" Presented Poster in the International Conference on Recent Trends in Chemical Sciences.
- Invited as a guest speaker on the machine learning study of nanomaterials at the Indian Institute of Technology, Bhilai.

## EDUCATION

**Pt. Ravishankar Shukla University**

**Raipur, Chhattisgarh**

*Integrated Master in Science | Physics(Hons) | Grade 82.71 %*

*July, 2017 – August, 2022*