

# Internship Experience Summary - Data Science

## Internship Details

Internship: Data Science Intern

Organization: APSSDC & Indo-Euro Synchronization (IES) Pvt Ltd

Duration: February 2024 - May 2024

## Tools & Technologies Used

- Programming: Python, SQL, Excel Macros
- Libraries: NumPy, Pandas, scikit-learn
- Visualization Tools: Power BI, Tableau

## Key Projects & Contributions

### 1. Salary Prediction Model:

- Built a linear regression model to predict employee salaries based on experience and education.
- Applied feature engineering and evaluated performance using R2 and MAE metrics.

### 2. Stock Market Trend Forecasting:

- Used time series data and Python libraries to forecast future stock trends.
- Focused on trend analysis, data smoothing, and performance metrics.

### 3. Astronomical Data Analysis:

- Analyzed large astronomical datasets to discover patterns and anomalies.
- Cleaned noisy data, handled missing values, and applied statistical methods for correlation analysis.

### 4. Case Studies:

- Worked on multiple business use-cases applying statistical hypothesis testing and data cleaning.
- Projects focused on real-world problem solving and insight generation.

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## Skills Applied

- Statistical Analysis: Correlation analysis, hypothesis testing
- Feature Engineering: Encoding, normalization, and transformation
- Machine Learning: Regression, classification (basics), and model evaluation
- Data Visualization: Created dashboards and charts for insights using Power BI and Tableau
- Collaboration: Worked with peers and mentors to solve industry-aligned problems

## Takeaways

This internship helped me strengthen my foundation in data science by applying theoretical knowledge in practical settings.

I learned how to handle real-world datasets, build ML models, and present results effectively. It also gave me insights into

how data can solve domain-specific problems and support decision-making, which aligns with the data-driven culture at Meesho.