AAYUSH SOURAV

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EDUCATION

Master of Computer Applications (MCA) in Data Science Dec 2022 – Dec 2024
Jain University, Bangalore | **90%**

Bachelor of Computer Applications (BCA) Aug 2018 – Sep 2022
TMBU, Bhagalpur | **70%**

SKILL SUMMARY

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, R, Javascript
- **Libraries & Frameworks:** Pandas, NumPy, Scikit-learn, TensorFlow, Keras, Matplotlib, Seaborn, OpenCV, Plotly
- **Machine Learning & Data Science:** Predictive Modeling, Clustering, Regression, Classification, Feature Engineering, Time Series Forecasting, Data Mining, Text Mining, Hyperparameter Tuning, Data Analysis, Data Visualisation, Natural Language Processing (NLP), Statistical Analysis, A/B Testing, Experimental Design
- **Data Tools:** Power BI, Tableau, Microsoft Excel, Jupyter Notebook, Google Colab, SQL Server, MySQL, MongoDB
- **Other Tools:** Git/GitHub, NLP, Deep Learning Architectures (CNNs, RNNs), LLMs, Flask, Streamlit, Docker, Kubernetes, Apache Spark
- **Soft Skills:** Critical Thinking, Problem-Solving, Effective Communication, Team Collaboration, Attention to Detail, Adaptability

PROFESSIONAL EXPERIENCE

SUDAKU CODECLAUSE PVT LTD BENGALURU
Data Science Intern *June 2024 – July 2024*

- Conducted K-Means clustering, identifying 4 customer segments, improving targeted marketing efficiency by 25%.
- Designed a time series forecasting model with 90% accuracy for retail demand prediction, integrating seasonality and trends to optimize inventory management.
- Pre-processed large datasets using Python, reducing data processing time by 30%.
- Enhanced hands-on expertise in data cleaning, clustering, and time series analysis.

COGNIFYZ TECHNOLOGIES BENGALURU
Data Science Intern *April 2024 – May 2024*

- Improved data quality by 15% through rigorous data exploration and preprocessing techniques.
- Conducted descriptive and geospatial analysis, boosting actionable insights by 20%.
- Achieved 85% model accuracy using linear regression, decision trees, and random forests.
- Enhanced model performance by 10% with advanced feature engineering and new variable creation.

SELECTED PROJECTS

House Price Prediction (Final Semester Research Project)

- Conducted as part of the MCA curriculum to apply advanced data science techniques to a real-world problem.
- Developed a high-accuracy prediction model using Random Forest and Gradient Boosting on 21,613 records.
- Performed EDA, feature engineering, and hyperparameter tuning to improve model performance.
- Visualized feature importance using Matplotlib and Seaborn for clear decision-making insights.

AI Attendance Management System

- Designed and implemented a real-time attendance tracker using TensorFlow, OpenCV, and NumPy for facial recognition.
- Engineered a high-accuracy model utilizing advanced deep learning algorithms, improving attendance tracking efficiency.

CERTIFICATIONS

- Master Excel for Data Science
- Advanced Python by Joe Marini
- Machine Learning with Python