

ATHARVA JOSHI

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SUMMARY

Aspiring Data Scientist and Machine Learning Engineer with expertise in Data Analysis, Machine Learning, and Deep Learning, gained through hands-on experience. Eager to apply technical skills to real-world challenges across diverse industries

EXPERIENCE

R&D INTERN – Rucha Yantra LLP

Feb 2023 – Feb 2024

- Optimized data-driven workflows for clients like **Škoda Auto Volkswagen** and **INOX**, improving **project efficiency by 15%** and delivering **cost-effective solutions**
- Engineered and implemented an **automated welding machine** with a precision rate of **98%**, **streamlining operations** and **reducing production errors**
- Developed a Python-based traffic management system using **Jetson Nano and YOLO v8**, achieving a **97%** success rate and reducing **defects by 40%**, saving over **100+ work hours monthly**
- Leveraged Python and **machine learning frameworks** for **real-time analytics**, enhancing operational **decision-making** and **reporting**
- Authored **comprehensive documentation** to support **process transparency**, **collaboration**, and **project onboarding**

DATA SCIENCE INTERN – Chandra Engineering

Mar 2021 - Sep 2021

- Built **predictive maintenance models** leveraging **Python** and **SQL**, reducing **defect rates by 15%** and equipment **downtime by 20%**, improving **operational efficiency**
- Developed **energy optimization pipelines**, decreasing **energy usage by 12%**, **stock-outs by 10%**, and overall **operational costs by 5%**
- Designed and implemented an **efficient data processing pipeline** in **Python** and **SQL**, increasing **data accessibility by 30%** and supporting the creation of **15+ visualizations** for **weekly executive briefings**
- Automated **forecasting models** using **statistical methods**, providing actionable insights to support **strategic decision-making** and **inventory management**
- Collaborated with **cross-functional teams** to align technical solutions with business requirements, **fostering an Agile work environment** and **data-driven culture**

EDUCATION

- MS in Data Science | State University of New York at Buffalo | 3.83/4 GPA

Aug 2024 – Dec 2025

Relevant Coursework: *Machine Learning, Statistical Data Mining, Python, Cybersecurity, DBMS*

- Bachelor of Technology in Electronics & Telecommunication | 3.8/4 GPA

Aug 2019 - June 2023

Relevant Coursework: *Calculus, Linear Algebra, Statistics, Probability, Deep Learning*

SKILLS & TOOLS

- Programming Languages & Frameworks:** Python, R, SQL, TensorFlow, PyTorch, Keras, Hugging Face
- Data Engineering & DBMS:** Databricks, Snowflake, Mongo DB, MySQL, Database Design & Modeling, Data Pipeline Automation, ETL Workflows
- Machine learning & AI:** Supervised (Regression, Classification), Unsupervised (Clustering), Ensemble Methods (XGBoost, Random Forest), Deep Learning (CNNs, RNNs, GANs, LSTMs), Reinforcement Learning, NLP, Hyperparameter Tuning, Hypothesis Testing, Time Series Analysis, Statistical Modeling
- Data Science & Visualization Tools:** Jupyter, Colab, Kaggle, EDA, Data Wrangling, Seaborn, Tableau, Power BI, Matplotlib, Git, GitHub, AWS (S3, EC2), MLflow

PROJECTS

Landmark Classification & Tagging for Social Media: CNN, Python

- Boosted overall accuracy by 20% and CNN accuracy by 10% by **enhancing a landmark classification system** using transfer learning and fine-tuning techniques, **achieving a test accuracy increase of 22%** and **reducing test loss to 1.01**
- Designed and deployed** a content management framework, **improving search efficiency by 40%** and **enhancing the user experience** for 1,000+ active users, **enabling faster and more accurate social media tagging**

LSTM Chatbot: RNN, Python

- Developed** a Seq2Seq LSTM chatbot, **reducing train loss to 0.689 in 200 epochs** while **shrinking vocabulary size by 83%**, **enhancing computational efficiency** and **model performance**
- Implemented** adaptive learning rates and attention mechanisms, **improving AI model accuracy by 17%**, conversation coherence by 12%, and **reducing training time by 15%** through **advanced hyperparameter optimization**

CERTIFICATIONS & INVOLVEMENT:

- Deep Learning Nanodegree, Udacity
- Data Science Specialization, Coursera
- Data Science Team Leader during B.Tech Final Year Project.
- Student Leader, Campus Dining Services, NY, USA
- National Chess Championship
- Volunteer:** Budget Management Team Head, TEDx