

# Ashish Yadav

• ay841544@gmail.com • +91-9168051126 • linkedin.com/in/ashishpramodyadav • github.com/ashishyadav0501

## PROFESSIONAL SUMMARY

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Detail-oriented Python Developer with experience in data analysis, machine learning, and bioinformatics. Skilled in Python, SQL, and Excel, with a strong foundation in data manipulation, visualization, and automation. Currently working at ArrayGen Technologies, developing data-driven solutions and optimizing workflows in LCMS analysis. Proven ability to extract insights, build predictive models, and enhance decision-making through analytical expertise.

## SKILLS

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- **Python:** Data Manipulation, Scripting, Pandas, NumPy, Data Cleaning, Data Visualization (Matplotlib), Scikit-Learn for Machine Learning, TensorFlow for Neural Networks, Regression Modeling,
- **R:** Data Manipulation, Scripting, Data Cleaning, Data Visualization (ggplot2), Statistical Analysis, Data Modeling, R Studio, Basic Machine Learning (Linear Regression, Decision Trees), Data Import/Export (CSV, Excel)
- **SQL:** Query Optimization, Database Management, Complex Joins, Subqueries, Window Functions, Data Warehousing, Data Extraction, and Transformation
- **Excel:** Advanced Data Analysis, Power Query, Pivot Tables, Macros, Statistical Functions, Solver for Optimization, Data Visualization
- **Tableau:** Interactive Dashboards, Data Storytelling, Advanced Visualization Techniques, Calculated Fields, Parameter Controls, Data Blending, Integration with Python
- **Machine Learning:** Supervised and Unsupervised Learning, Model Evaluation, Cross-Validation, Hyperparameter Tuning, Decision Trees, Random Forests, Clustering (K-Means, Hierarchical)
- **Deep Learning:** Neural Networks, TensorFlow, Keras, Convolutional Neural Networks (CNNs), Recurrent Neural Networks (RNNs), Model Training and Optimization
- **Statistics:** Descriptive Statistics, Probability, Hypothesis Testing, Linear Regression, Logistic Regression, Time Series Analysis

## EXPERIENCE

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### Python Developer, ArrayGen Technologies (Oct 24 - Present)

- Developing and optimizing Python scripts for bioinformatics data processing.
- Implementing machine learning models to analyze genomic data.
- Working on LCMS project to develop automated pipelines for analyzing liquid chromatography-mass spectrometry data.
- Enhancing data visualization techniques using Python and R.

### Data Analyst, Unified Mentor (June 24 – Aug 24)

- Performed financial analysis using SQL for data management and Tableau for interactive visualization.
- Analyzed financial data using SQL and visualized insights with Tableau.
- Optimized business strategies with data-driven insights, showcasing analytical and technical skills.

## EDUCATION

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### Bachelor of Engineering (Mechanical)

Modern College of Engineering

June 2019 -May 2023

CGPA 7.65/10

## **PROJECTS**

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### **Twitter Disaster Tweet Prediction**

- The Twitter Disaster Tweet Prediction project aims to contribute to early response efforts, improve situational awareness and enhance community resilience by providing timely and accurate information during emergencies and disasters.
- The system's versatility ensures its applicability across different types of disasters and geographical locations, making it a valuable asset for emergency management and public safety.
- Visualized gathered data and its outcome using Matplotlib.

**Skills** - Natural Language Processing, Data Cleaning, Data Visualization.

### **LCMS Project (Liquid Chromatography-Mass Spectrometry Data Analysis)**

- Developed an automated data processing pipeline for LCMS data using Python.
- Implemented machine learning techniques to detect anomalies in mass spectrometry data.
- Optimized data preprocessing steps to improve accuracy and efficiency in biomolecular analysis.
- Enhanced visualization techniques using Matplotlib and Seaborn for better interpretation of results.

**Skills** - Python (Pandas, Seaborn), Data Visualization, Tableau, Data Analysis, Predictive Modeling

## **CERTIFICATIONS**

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- Data Analytics - Great Lakes Institute of Management
- Python Programming Masterclass - Udemy
- Excel Skills - Goldman Sachs
- Data Visualization - TATA
- Data Science - BCGX