

Ashish Yadav

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PROFESSIONAL SUMMARY

Python Developer and Data Analyst with strong expertise in building data-driven solutions, automation pipelines, and predictive models. At ArrayGen Technologies, contributed to impactful projects including cancer biomarker prediction and the GAME genomic analysis tool. Proficient in Python, R, SQL, Excel, Django, and DevOps tools with a focus on data analysis, machine learning, and web API development. Known for delivering scalable tools, optimizing workflows, and collaborating with research teams to drive actionable insights.

SKILLS

- **Python:** Scripting, OOPs, Data Manipulation, Data Cleaning, Automation, NumPy, pandas, Scikit-learn, TensorFlow, API Integration
- **Django:** Web Application Development, RESTful API Development, Authentication, ORM, Django Admin, Middleware, Project Structuring
- **R:** Data Manipulation, Data Cleaning, Data Visualization (ggplot2), Statistical Modeling, Scripting in RStudio, Linear & Logistic Regression, Decision Trees
- **SQL:** PostgreSQL, Complex Queries, Subqueries, Window Functions, Data Extraction, Data Warehousing, Query Optimization
- **Excel:** Advanced Formulas, Data Cleaning, Pivot Tables, Power Query, Conditional Formatting, Data Visualization, Macros, Solver, VBA for Automation
- **ETL & Data Integration:** Data Pipeline Development, Data Transformation, Workflow Automation, Data Cleansing, Integration Across Data Sources
- **Machine Learning & NLP:** Text Preprocessing, Model Training, Classification, Clustering, Sentiment Analysis, Model Evaluation
- **Debugging Tools:** Visual Studio, VS Code, Watch Windows, Thread Management, Modules, Memory View, Disassembly View
- **Development Methodologies:** Agile/Scrum, Sprint Planning, Collaboration Tools, Jira
- **Testing:** Test-Driven Development (TDD), Behavior-Driven Development (BDD), Unit Testing, API Testing
- **Software Design:** Object-Oriented Design Principles, Design Patterns (MVC, Singleton, Factory), Clean Code Practices
- **Operating Systems:** Windows and Linux – Application Development, Deployment, Shell Scripting, Troubleshooting
- **Soft Skills:** Analytical Thinking, Problem-Solving, Self-Motivation, Independent Execution, Flexibility in Fast-paced Environments

EXPERIENCE

Python Developer, ArrayGen Technologies

- 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

- 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

Bachelor of Engineering (Mechanical)
Modern College of Engineering

June 2019 -May 2023
CGPA 7.65/10

PROJECTS

Cancer Biomarker Prediction using Deep Learning

- Built an end-to-end deep learning pipeline to predict cancer biomarkers from biological datasets.
- Automated the process from raw data ingestion to model prediction, enabling faster and reproducible research workflows.
- Collaborated with research scientists to interpret model outputs and derive actionable insights.
- Visualized model performance and biomarker patterns using Python libraries.

Skills - Deep Learning, Data Cleaning, Feature Engineering, Model Building, Data Visualization, Python, Research Collaboration.

GAME – GUI-Based Genomic Analysis Tool for Linux

- Developed a standalone GUI-based application for automating NGS (Next-Generation Sequencing) data analysis on Linux systems..
- Integrated 15 genomic analysis pipelines into a single platform, enabling one-click workflow execution and result visualization.
- Designed a user-friendly interface to make advanced bioinformatics tools accessible to non-technical users.
- Enabled scientists to download comprehensive reports and summaries of genomic data analysis.

Skills - Python, GUI Development, Shell Scripting, Linux (Debian), Workflow Automation, Bioinformatics, Data Visualization, User Interface Design

CERTIFICATIONS

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