ASHAYKARGAONKAR@GMAIL.COM • 2245759833

ASHAY KARGAONKAR

Data Scientist / Machine Learning Engineer / Software Engineer

PROFESSIONAL SUMMARY

Software Engineer with 4+ years of experience, including 3+ years in backend development with .NET, AWS, and database design. Skilled in migrating databases, developing scalable and RESTful web services, and optimizing cloud infrastructure. With a strong foundation in data science, data analysis, machine learning, and deep learning, I bring a well-rounded problem-solving approach. Passionate about AI, automation, and cloud innovations.

EMPLOYMENT HISTORY

SOFTWARE ENGINEER

Mar 2022 - Present *Chicago, IL*

Tata Consultancy Services

- Migrated about 21 million records to AWS DynamoDB, a NoSQL database, with a focus on data integrity, ensuring zero data loss while designing optimized table structures for efficient storage and retrieval.
- Developed high-performance web APIs using C# and .NET, leveraging AWS services and effective data modeling to improve data access and ensure system reliability.
- ♦ Collaborated on secure deployments using CI/CD pipelines with GitHub and Docker, working closely with testers to resolve issues and ensure a seamless user experience.

DATA ANALYST INTERN

Jan 2021 - Mar 2021

Remote

Instabub LLC

- ♦ Analyzed **AWS RDS** sensor data with **MySQL** to identify patterns in room and device usage, uncovering key insights for optimization.
- Developed predictive models in **R** and **Python** to enhance energy efficiency, leveraging **statistical analysis** and **data visualization** using **matplotlib** and **Tableau** to uncover trends and support strategic decisions, while designing dashboards.

DATA SCIENTIST

Aug 2018 - Aug 2019

Ezeelo Consumer Service PVT LTD

Nagpur, India

- Analyzed customer data to predict inventory needs and optimize global distribution using **prediction algorithms** and **clustering**, implementing product **recommendation models** that increased sales by **8**%.
- Leveraged **SQL** and **Python** for data normalization, improving trend analysis and insight extraction, and designed interactive **Tableau** dashboards to visualize product demand, aiding stakeholders in decision-making.

PROJECTS

CHESSGROW (PART OF THINKMOVES (ONGOING))

ThinkMoves Core, or ChessGrow, streamlines chess analysis using **computer vision** to scan score sheets for accurate digital conversion. Built with AWS Textract for **OCR**, a .**NET** backend, and a **TypeScript** frontend, it ensures reliable processing and cloud storage on **AWS**. Incorporating **image classification** techniques in development using **TensorFlow**, it enhances recognition accuracy. Users can analyze and share games, supporting strategic learning within the **chess community**

INVESTCRYPTO

InvestCrypto is a **time-series forecasting** project for cryptocurrency trends. It analyzes historical data from major cryptocurrencies using **ARCH** and **GARCH** models to capture volatility and improve prediction accuracy, offering valuable insights for data-driven investment decisions.

BREAST CANCER CLASSIFICATION

Breast Cancer Classification is a supervised machine learning project focused on diagnosing breast cancer using clinical data. It applies **advanced analytics** and compares multiple ML algorithms to evaluate performance, achieving 85% accuracy. The project utilized **pandas** and **NumPy** for data preprocessing, and the final models were deployed via Flask APIs, enabling real-time predictions and demonstrating end-to-end development from analysis to deployment.

EDUCATION

MASTER OF SCIENCE IN COMPUTER SCIENCE DePaul University

Sep 2019 - Aug 2021 Chicago, IL

BACHELOR OF COMPUTER ENGINEERING Pune University

Jun 2013 - Jun 2018 Pune, India