

# ADITYA DESHMUKH

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## EXPERIENCE

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### EPICS – ASU (Client: XSM Baseball)

#### Data Scientist

Seattle, USA

June 2023– Present

- Developed predictive models to forecast Major League Baseball (MLB) draft selections with an accuracy of 86% and ROC-AUC score of 0.92, leading to a 15% improvement over previous methods.
- Performed exploratory data analysis (EDA) using **Python, SQL, R, and Tableau**, uncovering key performance metrics and correlations that shaped feature engineering.
- Implemented machine learning algorithms including **Random Forest, Gradient Boosting, and Support Vector Machines**, selecting the optimal model through Grid Search and cross-validation.
- Deployed over 10 machine learning models into a production environment using **Docker, Kubernetes**, and cloud platforms, resulting in a 20% reduction in resource utilization and a 15% reduction in inference time.
- Effectively managed **A/B testing** initiatives and coordinated with cross-functional teams to refine product features, define **KPIs**, and ensure comprehensive data metrics for successful market entry and growth, resulting in a 20% increase in revenue.
- Managed and led a team of 3 data scientists, achieving 100% on-time project delivery and within budget constraints.

### ERNST & YOUNG (EY GDS)

#### Technical Team Lead / Software Engineer

Chennai, India

October 2018 – June 2021

- Led a team of 10+ junior developers in **Agile** methodologies (**Jira, Azure DevOps**), fostering collaboration through tools like **Confluence** and **TFS**.
- Managed user story creation, design mockups, backlog grooming, and sprint planning, achieving >90% deliverable completion rate.
- Leveraged project management metrics to track task progress, identify roadblocks, and measure team velocity, resulting in efficient resource allocation and improved project delivery.
- Spearheaded the development of end-to-end software solutions for a \$1B P&C Insurance client using Duck Creek Policy Center, XML, SQL, **Java, JavaScript**, Python, and AJAX, ensuring scalability, quality, and a six-figure revenue growth.
- Managed migration of client's legacy on-premises system to cloud-based on-demand software thereby reducing latency by 15ms.
- Deployed 100+ enhancements and resolved 500+ bugs across 30+ products, enhancing system performance.
- Implemented automated testing frameworks (**JUnit & Selenium**) to improve code quality and reduce manual testing efforts.
- Utilized **GitLab CI/CD** pipelines to streamline development and deployment processes.

## EDUCATION

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### Arizona State University

M.S./Computer Science – Specialization Data Science

Tempe, USA

August 2021 – May 2023

### SRM Institute of Science and Technology

B.Tech./Computer Science and Engineering

Chennai, India

July 2014 – May 2018

## SKILLS

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**Programming Languages:** Python, SQL, R, C++, Java, XML, JavaScript, Scala, MATLAB

**Machine Learning:** PyTorch, TensorFlow, Scikit-Learn, Pandas, NumPy, SciPy, Keras, XGBoost, LightGBM, Plotly

**Data Analytics and Visualization:** Tableau, PowerBI, ggplot2, Seaborn, Matplotlib, MS Excel, SAS, D3.js

**Technical Skills and Platforms:** MySQL, PostgreSQL, MongoDB, Spark, Hadoop, Apache Kafka, Duck Creek, .NET, AJAX, REST, SOAP, Agile, Scrum, Kanban, Azure DevOps, Jira, Confluence, TFS, Git, GitHub, Docker, Kubernetes, AWS, GCP, Azure

## PROJECTS

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**VAST 2022 MC 2 DATA VISUALIZATION:** Developed and optimized full-stack data visualizations for the 2022 VAST Challenge, revealing city resident insights using Flask, MySQL, Spark, D3.js, and Tableau.

**BOOK RECOMMENDATION SYSTEM:** Developed a book recommender system using Python and neural networks, analyzing various algorithms (content-based, collaborative-based, correlation-based) for personalized user suggestions.

**TRAJECTORY DATA IN SPATIAL DATA SCIENCE:** Analyzed and visualized trajectory data using PostgreSQL, Spark, Scala, GeoPandas, and Deck.gl, employing advanced spatial queries for detailed insights.

## CERTIFICATIONS

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Data Visualization with Tableau Specialization, *UC Davis*

Google Project Management: Specialization, *Google*

Software Product Management, *University of Alberta*

Google Data Analytics: Specialization, *Google*

EY Innovation: Agile, *EY*

Agile Project Manager, *PMI*