

# Ribhay Singh

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## EDUCATION

### Bachelor of Science in Data Science (Computer Science Track)

Arizona State University • Tempe • 2025

- Awarded Dean's List for academic excellence in the Fall 2024 and Spring 2025.

## EXPERIENCE

### Software Engineer Intern

Initialize

June 2024 - August 2024, San Fransisco Bay Area

- Led a Data Ingestion Project to acquire and integrate data from the company's website into Adobe Experience Platform.
- Leveraged Adobe Experience Platform tools and MySQL to thoroughly analyze and interpret data.
- Utilized data to offer actionable insights, playing a strategic role in the team's decision-making process.
- Conducted an all-inclusive demo to introduce Adobe Experience Platform to the team.
- Published comprehensive training notes into Basecamp, creating a beneficial resource for future team members.

## PROJECTS

### Customer Churn Prediction Model (Python)

- Utilized the Telco Customer Churn dataset from Kaggle to build an end to end machine learning model that predicts customer churn rate.
- Performed data cleaning, feature engineering and model selection.
- Used a multitude of Machine learning models that include Random Forest, Logistic Regression and XGBoost.
- Achieved 80% accuracy and high ROC-AUC.

### Real Estate Price Prediction Model (Python)

- Developed a machine learning model using Linear Regression which predicts the price of properties based on factors such as square foot area, number of bedrooms, etc.
- Used a public dataset from Kaggle and performed thorough data cleansing and preprocessing.
- Conducted exploratory data analysis (EDA) to derive trends, detect patterns, and identify outliers.
- Made extensive use of Python libraries such as pandas, scikit-learn, and Matplotlib.
- Achieved an R<sup>2</sup> score of 0.87 and RMSE of \$24,000, indicating high predictive performance.

### World Happiness Report Analysis (R and Python)

- Performed an in-depth analysis of the 2019 World Happiness Report dataset using R, utilizing libraries such as dplyr and ggplot2.
- Replicated a more advanced version of the same project in Python, making use of libraries such as pandas, Matplotlib, and NumPy.
- Deeply examined how economic, social, and governmental factors influence global happiness scores.
- Made extensive use of visualization techniques such and regression to uncover trends and patterns.

## SKILLS

Programming Languages: Proficient in Python, R, SQL, Java, C, C++ with working knowledge of HTML, CSS and Javascript

Software Tools: Eclipse, Visual Studio Code, Git & GitHub

General Data Science Skills: Expertise in data manipulation, wrangling, visualization, and storytelling

Machine Learning Skills: Expertise in model selection, training, evaluation, hyperparameter tuning, and deployment of predictive models in real-world applications

NLP Skills: Familiar with sentiment analysis, text preprocessing, and LLMs

Database: Comprehensive knowledge of SQL concepts including relational database design, joins, subqueries, query optimization and data manipulation

Data Visualization Tools: Skilled in Power BI and Tableau

Python libraries: Strong proficiency in pandas, NumPy, scikit-learn, TensorFlow, PyTorch, seaborn, and Matplotlib

Well-versed in software engineering principles, including Agile Development methodologies, TDD, SOLID design principles

Proficient in Data Structures and Algorithms

Strong mathematical aptitude with a deep foundation in statistics and probability

Experience with Adobe Experience Manger and Adobe Experience Platform

## CERTIFICATIONS

### The Data Science Course: Complete Data Science Bootcamp 2025

### The Complete SQL Bootcamp