

EKTA SHARMA

Current Location – Austin, TX

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Summary of Skills:

A highly dedicated, disciplined and accomplished IT professional seeking to contribute to and grow with a dynamic, progressive, and innovative organization. An aspiring data scientist with skills from Python programming, machine learning, statistical analysis, database management, data visualization and reporting, passionate about solving real-life problems with data-driven solutions, actively looking for new challenges and open to new opportunities.

I hold a Data Science and Analytics Certification from University of Texas at Austin. During this course I have developed strong programming and data science skills that can tackle business problems in any domain. I have over 12 years of experience in consulting doing software development and analysis and I hold a Master's and Bachelor's degree in Computer Applications.



Technical Skillset:

Python Programming & More - Python 3, Numpy, Pandas, Matplotlib, Plotly, Bokeh, API Interactions, Web-Scrapping(Beautiful Soup), Selenium, Splinter, SQL, SQLAlchemy, Flask, Flask-SQLAlchemy, Git, Github

Front-End Web Visualization – HTML, CSS, Bootstrap, Dashboarding, JavaScript, D3.js

Machine Learning and Statistics - Machine Learning Algorithms, Statistics for Machine Learning, Seaborn, Scikit Learn, Statsmodel, R Programming, Natural Language Processing, Scipy

Databases – MySQL, MongoDB (PyMongo), SQLite

Business Intelligence Software – Tableau, PowerBI

Advanced Topics – Natural Language Processing including Sentiment Analysis, Big Data Analytics with Hadoop, Spark

Other Skills - Microsoft Excel, Microsoft Word, Microsoft PowerPoint, Microsoft Access, Quality Center, Software Design Life Cycle Models, GCP, Heroku



Education and Certifications:

Data Analytics and Visualization Certification – University of Texas, Austin, November 2019 – May 2020

Master of Computer Applications (MCA), Bharati Vidyapeeth University, India 2003-2006

Bachelor of Computer Applications (BCA), CCS University, India 2000-2003
National Mathematics Olympiad Certificate - 2000, India
National Mathematics Olympiad Certificate - 1998, India

Udemy Certifications:

Complete Python Bootcamp
Python for Data Science and Machine Learning Bootcamp
SQL - MySQL for Data Analytics and Business Intelligence
Microsoft Excel Beginners to Advanced, Data Analysis and VBA



Work Experience

Wells Fargo, USA

Four long term contracts between May 2010 to September 2019
Group: Hogan Customer Information System (CIS)
Role: Customer Information System Analyst

Computer Sciences Corporation, India

June 2007 – July 2009
Group: Hogan Banking Relationship and Profitability System (RPS – RPM & CIS) New Product Release
Role: Engineer Application Development

Kanbay Softwares (Capgemini), India

January 2006 – June 2007
Group: Vision Plus Development and Production Support
Role: Associate Consultant – Mainframe Development



Projects

Click on the project titles to see more on Github.

Myers Briggs Personality Prediction

A Machine Learning model that predicts a person's personality type as one of the sixteen categories of Myers Briggs personality types (MBTI) based on the correlation between people's writing styles and their psychological personalities. The MBTI sorts individuals into one of the sixteen broad personalities based on the level of extroversion or introversion, sensing or intuition, thinking or feeling, and judging or perceiving. The goal is to find a correlation between people's post on social media and their personality type. We believe that social media gives people the platform to express themselves freely and openly and hence those posts can be an indicator of their personality type.

King County House Price Prediction

Implemented various Regression Models to predict house prices for King County (including Seattle).

Austin Air Quality Analysis and Prediction

The purpose of this project is to analyze the impact of climate change on air quality for the city of Austin and create a machine learning model that can establish a correlation between

the level of air pollutants like Ozone and NO2 and the climate parameters by using regression models and null hypothesis.

Australia Bushfires Central (WebApp) (2020)

The purpose of this project is to dig deeper into the roots of current and historical bushfires in Australia and present the findings and analysis results in the form of a web based Flask app with routes for - Australian bushfire locations, global bushfire locations, current and historical fire counts, impact caused by bushfires and climate's role in causing the bushfires, home and about page. Check it here - <https://australia-bushfire-central-ak7h3hm6ya-uc.a.run.app/>

Indeed Data Jobs Market analysis (2019)

The purpose of this project is to analyze the US job market for Data Jobs to answer the following questions. The scope of this project is limited to top 10 US Tech(IT) cities.

- Which US city has more data jobs?
- City wise which companies are posting more data jobs?
- What is the number of data jobs getting posted for various job titles like data analyst, data scientist, data engineer, BI, AI, Machine Learning etc.? Are there more jobs for one job title over the other? Which data job title has been posted the most and which has been posted the least?
- What is the salary range for data jobs wages? How does it change based on the city?
- Is there a correlation between data job salary and company rating?
- Is there a correlation between data job salary and job's minimum experience requirement?
- Where does the data wages stand in comparison to city and state median wages?
- How well are the data wages doing in comparison to the apartment rent based on the city?
- How well are the data wages doing in comparison to the median house prices based on the city?
- What is the ratio of number of data jobs posted to per capita crime rate based on the city?

2019 NYC Citi Bike Analysis Using Tableau

Using Tableau, analyzed New York City's Citi Bike data for 2019 to uncover interesting observations. Enjoy the findings and visualizations here - https://public.tableau.com/profile/ekta7638#!/vizhome/CitiBikeAnalysis_twbx/NYC2019-CitiBikeDataAnalysis

Fish Weight Prediction

Implemented a Regression Model that predicts a fish's weight based on its specie, length, width & height.

Digit Recognition Classification Model

The purpose of this project is to build a classification model that can recognize digits as accurately as possible. The datasets used for this project are the Sklearn's MNIST and digits dataset. The MNIST database contains a total of 70000 examples of handwritten digits of size 28x28 pixels, labeled from 0 to 9.

Boston Housing Price Prediction

Boston Housing Price Prediction using Linear and Polynomial Regression using Kaggle Dataset. The project implements univariate and multivariate linear and polynomial regression models.

Black Jack

Simple game of Black Jack implemented using Python Object Oriented Programming concepts.

Belly Button Biodiversity – A full stack application

A full stack interactive dashboard to explore the Belly Button Biodiversity Data from The Public Science Lab. Check it here: <https://belly-button-dashboard-app.herokuapp.com/>

Web Visualization Dashboard for Latitude vs Climate Analysis

The purpose of this project is to analyze the relation between latitude and climate parameters for 500+ cities across the world of varying distance from the equator and creating a visualization dashboard to display the findings.

Data Journalism and D3 – Health Risk vs Poverty/Age/Income

An advanced scatter plot created using D3 visualization library with multiple x and y axes labels that lets the user select between the three labels on each axis and interact with the data. Check it here - https://esharma3.github.io/data_journalism_visualization_using_D3/index.html

UFO Sightings

A JavaScript project that adds a table of ufo sightings data (for North America) on a web page dynamically based on the filtered criteria through drop down list options. Check it here: https://esharma3.github.io/ufo_sightings/

Mission To Mars - Webscraping Project

A web scraping project that uses requests, selenium, splinter to scrape data from various urls, save it in MongoDB and uses flask templating to display scraped data on web page.