

# PREM PATEL

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## TECHNICAL SKILLS

- **Programming Languages:** Python, RStudio, JavaScript, HTML, PowerBI, SQL, Tableau
- **Libraries:** pandas, NumPy, plotly, matplotlib, seaborn, beautiful soup, SQL Alchemy, tidyverse

## WORK EXPERIENCE

### IT SPECIALIST

MAR 2020 – AUG 2022

Rome, Georgia, United States

- Upgraded, modified, and installed hardware and software for computers, security systems, and point of sales systems.
- Generated daily sales report using vlookup, pivot table and complex formulas in Microsoft Excel.
- Built and maintain website using google business to advertise the business and current sales.

## PROJECT EXPERIENCE

### NBA SPORTS ANALYTICS / [GitHub](#)

OCT 2022 – DEC 2022

- Utilized web-scraping to extract basketball's meta, player and team data and export it into multiple csv files using beautiful soup in python.
- Wrangled and structured the scraped data using pandas in python to prepare for accurate visualization using charts and graphs in plotly. And built statistical models in RStudio using linear regression.
- Built a live predictive basketball simulator using REACT and SQL Database, in which users can join a room, build their own team, and compete against others. In the back end our statistical predictive models decided player's individual scores and the outcome of the game.

### MENTAL HEALTH ANALYSIS / [GitHub](#)

AUG 2022 – SEPT 2022

- Performed ETL to analyze trends of causes in mental health from factors such as sex, age, and gender groups from data collected around the world using Python (pandas, NumPy, Matplotlib, Plotly).
- Visualized the factors that may be responsible for the deteriorating mental health of an individual in both the personal and the professional setting using charts, graphs, and other data models.
- Constructed statistical hypothesis and discovered relationships between different disorders, age groups, and gender using bootstrap and Linear Regression in RStudio

### MOTION SEQUENCE RETRIEVAL - 2D/3D Pose Extraction

JAN 2021 – MAY 2021

- Explored multiple different pose estimation libraries online and chose OpenPose library to use for the python application.
- Designed the initial functions of the application so that the pose estimation processed a video in real-time and displays the changing key point vales alongside.
- Developed code to index the individual frames so that the AI algorithm can efficiently process them for the professional video retrieval.

## EDUCATION & CERTIFICATIONS

### University of Calgary / Master's in Data Science and Analytics

Present

- Current GPA: 3.85
- Relevant Coursework: Statistical and Machine Learning, Big Data Applications, Statistical Modeling w/Data, Visualization and Analytics.

### Kennesaw State University / Bachelor of Computer Information Systems

2021

- Honors: Magna Cum Laude | Dean's List | GPA 3.90
- Relevant Coursework: Discrete Structures, Software Acquisition & Project Management, Database Systems, Data Communication and Networking.

### AZ900 – Azure Cloud Fundamentals

2023

### Google Data Analytics

2022

## INTERESTS

**ICPC - International Collegiate Programming Contest:** Participated in algorithmic programming contest for college students. Worked in teams of three, representing Kennesaw State University to solve the most real-world problems, fostering collaboration, creativity, innovation, and the ability to perform under pressure.