PRERNA JAIN

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OBJECTIVE

*Apply my passion for coding to generate new insights and deliver world class solutions for complex problems in the emerging space of Data Analysis, Machine Learning and Artificial Intelligence*

CORE Competencies

* Data Analysis and Insight Generation– Proficient in numbers, huge data handling and data visualization using Python, MS Excel and MS Access
* Active and Fast Learner – Learnt Microsoft R and Python coding and concepts of **Machine Learning and Artificial Intelligence** within a small time frame to a level for competing in Online Coding Challenges
* Innovative - Have been delivering creative, out of the box solutions for impossible tasks

RECENT PROJECTS

1. **CHATBOT USING PYTHON:**
2. Successfully built a Chatbot which answers general questions and learns on the go as you interact with it; using python as the programming tool.
3. Built an interactive **AI powered voice assisted Chatbot** for providing home remedies and simple solutions to common medical ailments which thus saves time and the effort to visit the doctor. It understands English as well as Hindi. The programming is built on Python and uses Artificial Intelligence. Further optimization and integration with web (Google Cloud) and social media is in progress
4. **DEVELOPMENT OF MOVIE DATABASE AND DEPLOYMENT OF APP ON GOOGLE CLOUD: (GIVEN BY THE SQUA.RE)**

Successfully built the app on Python and interfaced it with IMDB server by building an **API** to fetch data which is not available in local database and store it. Hosting the app on Google cloud is in progress



1. **PREDICTION OF HEART RISK FOR PATIENTS: (GIVEN BY L&T INFOTECH)**

Successfully completed the assignment on historic health care data to come up with up with valuable insights and predict Heart Risk for new patients given their health data. **Machine learning algorithm – K Nearest neighbors** was used implemented on Python. Accuracy of 85% was achieved.



1. **Understand and prepare a causal model to analyse the behaviour of restaurants: (given by BRAVVURA)**

Successfully analyzed the problem statement and submitted the solution by taking dummy data from Zomato.com data and generating random data in Python. **Linear regression** and descriptive statistics were performed to analyze the data and come up with valuable insights.



1. **REVENUE MAXIMIZATION & COST OPTIMIZATION FOR A B2B ORGANIZATION (given by evaueserve)**

Formulated and analyzed multiple data models using dummy data extracted from Internet and Statistical and Intuitive analysis were carried out to come out with valuable insights to arrive at Product prioritization, Location prioritization, Sales agents’ performance etc. for maximizing Revenue and optimizing Cost. Further, machine learning algorithm – Linear Regression was used to predict the next month’s sales in order to increase the operational efficiency.



1. **SALES PREDICTION FOR A BIG GROCERY STORE LIKE BIG BAZAAR (taken up by Self)**

Analyzing different machine learning regression algorithms like Linear, Lasso, Ridge, etc.. and implementing them on data set of grocery items sales to come up with best suited model for predicting the sales of a particular item outlet wise.

CODING CHALLENGES

* Scored **100% in coding challenge** - by Thoughtworks on skillenza.com using Python
* Reached SEMIFINAL ROUND with python coding in **CODE GLADIATORS CODING CHALLENGE 2018 – World’s biggest coding Arena with prizes worth Rs 75 Lacs.** Scored 100% in the First round.
* At Level 6 in Sololearn learning (mobile app for learning, practicing and competing)

SKILLS

* Python- NumPy, Pandas
* MS Excel - Advanced
* MS Access
* Microsoft R
* Google Cloud
* C
* MATLAB
* HTML
* UNIX
* SQL
* Visual Basic
* MapInfo
* MS PowerPoint

CERTIFICATION COURSES

* Certified in **Google Analytics** for Beginners
* Introduction to **Artificial Intelligence** – online course by UDACITY.COM
* Advanced **Machine Learning** Specialization – online course by COURSERA.org
* Principles of Machine Learning: Python Edition by Microsoft – online course by EDX.org
* **Machine Learning** by Columbia University – online course by EDX.org
* Introduction to **Python for Data Science** - by Microsoft - Online course by EDX.org and many other short courses on Python by COURSERA and EDX.
* Introduction to **R for Data Science** - by Microsoft - Online course by EDX.org -
* Completed a course on basics of UNIX and Solaris – held in Tata Teleservices Ltd

JOB Achievements

* Awarded the **SPECIAL ACE AWARD** by the **Managing Director of Tata Teleservices Ltd** for providing the necessary analysis of huge data of network KPIs, which aided in completion of the Carrier surrender project within stringent timelines; thereby saving Crores of penalty for the company
* Designed & Implemented a highly innovative & breakthrough solution using **SQL and UNIX scripting** in a record timeframe, resulting in a **saving of 16 Crores INR** in vendor charges.

Work Experience 9.5 Years+

**Analyst – Corporate RF Planning and Strategy - TTSL: Feb 2010 –June 2018 (Manager)**

**Project 1: Enhancing the usage Experience of Premium Customer:**

Summary: The project involved evaluating Call Data records to find out a customer’s most preferred location to make calls. Proactively monitoring of the premium customers locations therefore ensures any interruption in the network services to be handled effectively and faster resolution of the same.

Complexity: Handling huge data of Call records as millions of records are generated per day per customer.

**Project 2: Assessing the profitability of a base station:**

Summary: This project involved devising a methodology to assess the profitability of a base station which would aid senior management to take the right decisions on expansion or reduction of their network footprint in particular locations. The algorithm created involved generating the revenue earned by each base station and subtracting its operating cost.

Complexity: In absence of advanced systems Revenue per Base station was not available directly and was derived through complex automated scripts run on huge data of call records

**Project 3: Formulation and Implementation of algorithm for providing preferential rates for customers in their home locations:**

Summary: This project involved formulating an algorithm where customers could enjoy a lower charge/zero charge per call while they move in their home location. The implementation process took care of exceptional cases as well as refunding the customers in case of wrong charging.

Complexity: Involved formulation of logic of decoding the location of a customer from Call data records through complex analysis and multiple iterations

**Project 4: Deployment of WIFI solution for decongesting the wireless network**

Summary: This project involved identification of locations where wireless network was running on full capacity and users were experiencing lower data speeds. The same was done through analysis of multiple network KPIs (Key performance indicators)

Complexity: Trending of Network KPIs and correlating them correctly to get the right picture involved huge data analysis along with visualizing all possible scenarios

**Subject Matter Expert - CNMS (Performance Management) - TTSL: 1st Sept 2008 to Jan 2010**

* Interacted with various Planning & Operations teams to design and develop Network Performance Reports through IBM’s Metrica tool
* Managed a team of 15 software development engineers for various OSS requirements (Code Development, Testing & Production deployment)
* In house UNIX scripting and Macros development for customized report requirements
* Deployed the **Service Quality Management** tool for High Speed Internet Service

**Project 5: Reduction of time for resolution of Performance and Fault management tool issues**

Summary: This project involved finding the root cause and finding a solution for the same in order to bring down the time required to solve the tool issue. Six Sigma approach was used for the same and post successful completion certificate was issued

ACADEMIC PROFILE

* 1. **Bachelor of Engineering, Electronics and Telecommunications, 72%**  *Maharashtra Institute of Technology, Pune (Pune University)*

2003-2004  **XII, CBSE, 87.2%**

*Delhi Public School, R.K.Puram, Delhi*

2001-2002 **X, CBSE 86.6%**

*Mater Dei School, Delhi*

ACADEMIC ACHIEVEMENTS

* Ranked 3rd in college with 72% in the final semester of B.E – Electronics & Telecommunications
* Secured All India Rank of 48 in National Level Mathematics Olympiad (Delhi) 2000
* Awarded certificates in various Science and Mathematics Olympiads at school level