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AKHIL BATTU

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EDUCATION

University of North Carolina Charlotte   Charlotte, NC   **Aug 2018 – May 2020**
- **Master of Science, Computer Science, GPA: 4.0**

CBIT Osmania University   Hyderabad, India   **Aug 2014 – May 2018**
- **Bachelor of Engineering, Computer Science, GPA:4.0**

EMPLOYMENT

Graduate Teaching Assistant   UNC Charlotte   **Jan 2020 - May 2020**
- Analyzing the data using the Regression models with the help of Xlminer Tool.
- Taught small groups of students focused on specific parts of coursework.
- Checked assignments, proctored tests, and provided grades according to university standards.

Junior Software Engineer   Object One Information Systems India   **May 2017 - Sept 2017**
- Worked on migrating the employee leave monitoring system from legacy software to implementing additional features like report generation, leave transactions and customizable leave policy.
- Gathered data on integration issues and vulnerabilities and reported all findings, including improvement recommendations and developed the application using Javascript, Html, CSS and Oracle DB.

SKILLS

- **Languages:** Java, C, C++, Python, JavaScript, R.
- **Tools and Frameworks:** Jupyter, XLMiner, WEKA, MS Excel, Node JS.
- **Databases:** Oracle Database, Microsoft SQL Server, MongoDB, MySQL.
- **Other Skills:** Data Analysis, Machine Learning, Business Intelligence, Big Data, Visual Analytics.
- **Certifications:** IBM Data Science, Microsoft Power BI, Tableau 10, Python for Data Science.

TECHNICAL EXPERIENCE

- **Urban Trajectory Data Visualization:**
  - Built a visualization application using a leaflet library that allows the users to see the busiest route of a city based on average speed, duration, distance, pick up and drop locations.
  - Generated statistics of the taxi rides like most frequent street names, top pick up and drop locations, the relationship between different attributes using Word Cloud, Sankey Diagram and Scatter Matrix respectively.
- **Analysis of Graduate Admissions in USA:**
  - Pre-processed the raw data sets using XLMiner and used regression modeling techniques to determine the best model which predicts chances of admission into a university in the USA accurately.
  - Used Multiple Linear Regression, Regression Tree and KNN on different hypotheses and found out that Multiple Linear Regression has a very high $R2$ value of 0.84 and very low error rates.
  - Identified the aspects which have higher significance with the help of visualizations using Tableau and python libraries like Plotly, Seaborn, etc.
- **Twitter Data Sentimental Analysis:**
  - Extracted the data with the help of Tweepy API and analyzed the sentiments of customers towards a particular product or brand.
  - Developed several visualizations from the analysis to conclude whether a product can win against its competitors using Plotly, Seaborn and Bokeh.
- **Adventure Works Cycles Analysis using Power BI:**
  - Designed and developed highly interactive, visual and layered Business Intelligence solutions for Adventure Works Cycles using Power BI.
  - Used advanced DAX functions to query data and build relationships between different datasets and found important business solutions about different individual products.

ADDITIONAL EXPERIENCE AND AWARDS

- **Chaitanya Smruthi**, Executive Board Member: One of the heads of student council managing current and alumni participation for college's largest biennial festival Carpediem and various other social service activities.