12002 Diploma Dr, Apt H
Charlotte, NC 28262

AKHIL BATTU

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EDUCATION

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

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

WORK EXPERIENCE

Graduate Teaching Assistant UNC Charlotte, Charlotte **Jan 2020 – Present**
- 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 **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

- **Online Shopping Cart Full Stack Web Application:**
  - Implemented a MVC Architecture and designed a responsive UI. Developed the application using MEAN stack and implemented a NoSQL design for data handling.
  - Hashed and salted passwords for secure login and scaled the application by performing request validation and output sanitation.
  - **Tools:** Node.js, Express.js, Sessions, bcrypt, HTML5, CSS, Bootstrap, MVC Framework, MongoDB.
- **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.
- **Electronic Health Records using Cloud Environment:**
  - Designed a web application which integrates two different health records into a single one using Clinical Document Architecture on cloud environment.
  - Used SMTP protocol to send and receive requests while registering and logging in for security.
  - Used Triple DES algorithm to encrypt the data that is sent to the cloud for integration.
  - **Tools:** Javascript, Oracle SQL, HTML, CSS.