

# Amit Kumar Deo

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## EDUCATION

### Vellore Institute of Technology

BTECH - Computer Science and Engineering

CGPA- 9.12

Amaravati, Ap

Aug. 2023 – May 2027

### Red Roses Public School

CENTRAL BOARD OF SECONDARY EDUCATION

PCM- 88%

CLASS X- 93%

Saket, New Delhi

2023

2021

## EXPERIENCE

### Research Associate, Entrepreneurship Club

Oct 2024 – Present

Vellore Institute of Technology

- Conducted detailed market research analyzing startup trends and performance across India to identify patterns and insights.
- Processed and structured large datasets using **Pandas**, **NumPy**, and **SQL** for data cleaning and validation.
- Developed interactive dashboards and reports with Power BI and Matplotlib to communicate findings clearly to stakeholders.
- Reviewed written content and presentations for clarity, tone, and alignment with audience expectations.

## PROJECTS

### Customer Segmentation using K-Means Clustering/ Python, Pandas, Scikit-learn, Seaborn, SQL

[Project Link](#)

- Preprocessed customer data using SQL: filtered irrelevant columns, handled missing values, and performed rule-based segmentation (e.g., High Spender, Frequent Buyer).
- Engineered features such as average spend and loyalty score to enhance clustering accuracy.
- Applied K-Means clustering on behavioral features to identify 4 distinct customer segments for targeted marketing strategies.
- Visualized cluster patterns and insights using Matplotlib and Seaborn

### Rain Prediction using Weather Data/ Python, Pandas, Scikit-Learn

[Project Link](#)

- Built a classification model to predict rainfall using historical weather data.
- Preprocessed and visualized key weather parameters affecting precipitation.
- Assessed model accuracy for reliable weather-dependent decision-making.

## TECHNICAL SKILLS

**Languages:** Python, R, Java, C/C++, SQL (MySQL, PostgreSQL),

**Frameworks:** Flask, FastAPI

**Developer Tools:** Git, VS Code, Jupyter Notebook, PyCharm, IntelliJ

**Libraries & ML Tools:** Pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn, BeautifulSoup

**Data Visualization & Analysis:** Excel, Power BI

## Achievements

- Top 20% Performer** at Vellore Institute of Technology, consistently excelling academically
- Maintained an **SCPA above 9.0** for the last three semesters, demonstrating strong analytical and problem-solving skills.

## Certifications

- Career Essentials in Data Analysis – Microsoft & LinkedIn
- Accenture: Data Analytics and Visualization Job Simulation
- HackerRank SQL (Intermediate)