# VISHAL PATNAIK DAMODARAPATRUNI

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## EXPERIENCE

***Data Research Analyst Intern***
**RMIT**
**July 2020 – November 2020**

- Conducting research on various data sources to identify trends and patterns in data.
- Collaborating with cross-functional teams to gather data and provide insights to support decision-making processes.
- Cleaning and preparing raw data for analysis using data manipulation and visualization tools such as Python and R.
- Creating reports and presentations to communicate findings and insights to management and other stakeholders.

## EDUCATION

***RMIT University***
**Master of Data Science**
**2020 - 2021**

- Developed an NLP based search engine to search legal documents based on user queries.
- Active member of CSIT society and Programming club of RMIT.

***SIR CR REDDY COLLEGE OF ENGINEERING***
**Computer Science Engineering**
**2015 - 2019**

- Developed a Facial recognition and expression detection system using Deep learning.
- Attended workshops on Ethical Hacking, Gaming, and Virtual Reality.
- Completed an internship in Android development.

## SKILLS

- **Programming Languages** : Python, R, SQL, C, C++, JAVA
- **Web Technologies** : HTML, CSS, PHP
- **Frameworks** : TensorFlow, Apache Spark, PyTorch, Hadoop
- **Data/File Formats** : CSV, XLS/XLSX, Image (JPG), MP4, TXT, PDF, Json, XML
- **Databases** : Oracle, MySQL, SQL server
- **Tools** : Jupyter Notebook, Microsoft Suite, PyCharm, R Studio, SQL developer, Weka, Eclipse IDE, GIT

## ACHIEVEMENTS

- Completed Virtual internships at Forage for KPMG, BCG, British Airways in Data Science and Data Analysis.
- Data Science with Python and R tracks in Data Camp. Also, completed nearly 75+ projects.
- Maintained #12 rank in Project Euler+ for more than a year in Hacker Rank among the participants from Australia.
- Actively solving Python challenges from GeekStatic.
- Developed a text-based AI assistant using Python.
- Developed dashboards using R (Flex-dashboard) and Tableau.

## RESEARCH WORK / CASE STUDY

- A research paper on facial detection and expression identification in humans.
- A Case study on Facebook Automated Alternative Text.
- A Case study on Cyclist's detection problem in Autonomous cars.

## CERTIFICATIONS

- Completed Coursera certifications for Deep Learning from Stanford University, and Natural-Language-Processing as well as TensorFlow from Deep Learning AI.
- R certification from Udemy and Python certification from NPTEL.
- Data Science, C Programming, and IoT Certifications from Alison.
- Python, Django, and Web PHP from Bit Degree.

## PROJECTS

### *Natural Language Processing - Bert NLP for Contextual Search*

**Project Member**

**July 2021 – November 2021**

- Conducted data cleaning and manipulation tasks on raw data.
- Utilized unsupervised learning techniques to train pre-trained BERT models on legal documents and extended their functionality.
- Developed a search function using the trained models and assessed their accuracy by comparing results.

### *Facial Expression Recognition System using Deep Learning algorithms*

**Project Leader**

**Dec 2018 – April 2019**

- Developed a facial recognition system to detect faces and recognize facial expressions using Python-based deep learning techniques.
- Created an algorithm for real-time processing of facial data to enable quick and accurate classification of emotions.
- Conducted extensive testing and validation to ensure high accuracy of the facial recognition and emotion classification system.

### *COVID 19 data analysis and prediction of India*

**Project Leader**

**July 2020 – November 2020**

- Developed a web application to analyse and visualize COVID-19 data in India, incorporating SIR modelling and other mathematical models.
- Used Python and data visualization tools to create interactive graphs and charts for the web application, allowing for easy interpretation of complex data.
- Conducted in-depth analysis of the impact of various factors, such as lockdowns and social distancing, on the spread of COVID-19, resulting in predictions of future trends.

### *Australian Hospitals Dashboard*

**Project Leader**

**March 2021 – July 2021**

- Developed compelling data visualizations using RStudio and Tableau to tell the story of Australian hospital data, both regional and metropolitan.
- Utilized statistical analysis to provide insights into key trends and patterns in the hospital data, enhancing overall understanding and decision-making.
- Created dynamic dashboards to present data in an easily digestible format, enabling users to quickly identify trends and make data-driven decisions.