



Vikram Bhat

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Data scientist with deep expertise in data science and analytics, strong hold on Mathematics and Statistics, fascination in programming and comprehensive experience in handling large language models and building RAG systems. I am seeking an opportunity with a growing organization wherein there is a chance to apply my analytical and technical skills acquired.

Skills

- Retrieval Augmented Generation
- LLM
- Data Science
- Machine learning
- Data mining/Processing
- Data warehouse
- Python
- R
- SQL
- Shell Scripting
- Statistics
- Deep Learning
- Data Visualization
- AWS Sagemaker
- Problem Solving
- Critical Thinking
- Customer Service
- Creative Thinking

Education

MSc in Data science and analytics/University College Cork,
Cork. **GPA 1:1**

OCTOBER 2017

Data Mining and Machine Learning, Multivariate Methods for Data Analysis, Linear Regression and Generalized Linear Modelling, Programming in Python with Data Science Applications, Information retrieval systems, Text mining and sentiment analysis.

PROJECTS

MAXIMIZE STUDENTS' EXPERIENCE IN A UNIVERSITY USING ARTIFICIAL NEURAL NETWORKS AND SUPPORT VECTOR MACHINES
MAY 2017 – SEP 2017

Scholarship: Boole / Presidential Merit Scholarships for top International(non-EU) student
2016/2017.

B.E. in Computer Science/Sir M.VIT, Bengaluru **GPA 1:1**

JUNE 2012

Relational Database, C programming, Compiler Design, Data Structures, Advanced Mathematics and Statistics.

Work Experience

- 8 years of experience in design, development, and management of Data science technologies.
- Advanced proficiency in developing Retrieval-Augmented Generation (RAG) systems using WatsonX LLMS, enhancing the synergy between language model processing and search functionality through innovative use of Langchain and Elasticsearch.
- Proficient in analyzing the problems and data cleaning, build, deploy and score machine learning models using Python and R.
- Use sklearn, Pandas, numpy, tensorflow, wml and other libraries to build and deploy Regression, Prediction and Clustering models.
- Build and deploy end to end ML pipeline using IBM Watson Studio and AWS Sagemaker environments.
- Expert in building data reporting/visualization using matplotlib, seaborn, plotly in Python and ggplot, flexdashboard, shinydashboard, plotly, leaflet in R and reporting tools such as Tableau, Cognos Analytics etc.

Data Scientist /IBM, Dublin

MAY 2019 –

- Integrated complex language models using Langchain for improved processing efficiency and system functionality in natural language tasks.
- Led the creation and implementation of advanced Retrieval-Augmented Generation systems on the WatsonX LLMS platform, focusing on enhancing language processing and information retrieval capabilities.
- Employed Elasticsearch for the vector storage solution, significantly enhancing data indexing and search response efficiency, which resulted in faster and more accurate query handling.
- Developed models for Regression, Prediction, Clustering, and Time-Series analysis, catering to sectors like Wealth Management, Utilities, and Healthcare by delving into specific industry challenges.
- Managed comprehensive datasets, ensuring meticulous preparation, and cleansing to construct and operationalize machine learning models within Watson Studio, facilitating real-time scoring in Python via Jupyter notebooks.
- Created interactive R-shiny dashboards for dynamic visualization and evaluation of machine learning models, utilizing an array of libraries like ggplot, flexdashboard, shinydashboard, and plotly for dashboard construction.
- Formulated a seamless pipeline from inception to deployment for machine learning models within Watson Studio, with deployment on AWS Sagemaker and subsequent monitoring using IBM Watson OpenScale.
- Demonstrated proficiency in articulating complex results to both internal and external stakeholders, ensuring clear and effective communication.

Data Analyst /Voxpro Groups, Cork

JAN 2018 – APR 2019

- Identify, extract, and transform both structured and unstructured data collected from internal tools and heterogeneous systems. Build SQL scripts to load the data into data warehouse.
- Creation of models, reports and visualization solutions providing interpretation and insight into business data and processes. Used python libraries and tools such as Power BI to provide visualization.

BI Developer /Cognizant Technology Solutions, Bengaluru

JUL 12 – AUG 16

- Managed data extraction from various sources including Mainframes and SQL Servers, and performed ETL operations with Informatica tools. Developed comprehensive data mappings in a Hadoop environment to process and prepare data for database integration.