

# Vivek Ranjan

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📍 Cappavilla Village, UoL, Co. Clare, Ireland | [github.com/nightmarebegin/](https://github.com/nightmarebegin/)

## PROFESSIONAL SUMMARY

Software Engineer with 4 years of experience building and optimizing data solutions in healthcare and telecommunications. Proficient in ETL pipelines, AWS infrastructure, and data modeling to support informed decision-making. Currently deepening my expertise through a Master's in **Computer Vision and AI**, where I'm exploring machine learning and image processing to complement my background in data systems. Enjoy collaborating across teams to simplify complex problems with practical, scalable tools like Python, SQL, and cloud technologies. Always eager to learn and contribute meaningfully at the intersection of data, AI, and real-world impact

## EDUCATION

<b>University of Limerick</b> (📍 Limerick, Ireland) <i>Master of Engineering, Computer Vision and Artificial Intelligence</i>	Sept, 2025 – <b>Present</b>
<b>Panjab University</b> (📍 Chandigarh, India) <i>Bachelors of Engineering, Computer Science and Engineering</i>	GPA : 7.09 2017 – 2021

## EXPERIENCE

<b>Associate Consultant</b> <i>Eli Lilly and Company (USA)</i>	11/2023 – 07/2025 📍 Bengaluru KA, India
<ul style="list-style-type: none"><li>Developed efficient data pipelines for Zepbound (Lilly Health App) Reporting Layer to extract, transform, and load data from diverse sources into AWS Redshift, cutting manual effort by <b>40%</b></li><li>Processed data from AWS S3 using AWS Glue Spark RDD, applying business rules and loading into redshift db for <b>150+ tables</b> containing <b>10+ million records</b> related to patient for <b>Lilly Health</b> and <b>Tempo</b> application</li><li>Automated deployment of data pipelines via <b>CI/CD</b> using <b>GitHub Actions</b></li><li>Designed data pipelines for <b>LAAD dataset</b> (prescription, medical claims, remittance data) across multiple databases, establishing <b>AWS Redshift datashare</b> connections to centralize data for visualization and reporting</li><li>Built <b>KPIs</b> and metrics for <b>monthly scorecards</b> focused on Tempo, Lilly Together and Lilly Health Application analytics. Identified patients to send <b>intervention modules</b> driving patient behavioral changes</li><li>Engineered data pipelines to extract and process patient-related records from Salesforce CRM, integrating with AWS Redshift for centralized reporting and analytics</li><li>Designed and managed <b>Tableau</b> and <b>Power BI</b> dashboards to support insightful and data-driven decision-making</li><li>Created a robust Python framework for automating the generation, daily updates, and auditing of data warehouse tables, directly from transactional data layer with the help of configuration files</li><li>Bridged the gap between business needs and <b>technological solutions</b> by understanding <b>business requirements</b> and translating them into actionable technical solutions, ensuring alignment and driving successful outcomes</li></ul>	
<b>Engineer I</b> <i>Dish Network Technologies (Echostar LLC, USA)</i>	09/2022 - 10/2023 📍 Bengaluru KA , India
<ul style="list-style-type: none"><li>Developed an automated data validation module and configured <b>Airflow</b> jobs to orchestrate <b>ETL</b> processes in AWS Glue, enhancing data processing efficiency</li><li>Designed and maintained data models in Oracle databases, <b>optimizing querying</b> and storage for analysis, while creating detailed documentation on <b>source-to-target mappings</b>, data types, naming conventions, volume estimates, and <b>metadata</b> for the ETL team</li></ul>	
<b>Programmer Analyst</b> <i>Cognizant Technology Solutions (USA)</i>	08/2021 - 09/2022 📍 Remote
<ul style="list-style-type: none"><li>Developed and maintained ETL solution using SQL and Python to ingest data into the <b>Snowflake</b></li><li>Created <b>facts</b> and <b>dimensions</b> tables in the Snowflake database</li></ul>	
<b>Software Intern</b> <i>Cognizant Technology Solutions (USA)</i>	02/2021 - 06/2021 📍 Remote
<ul style="list-style-type: none"><li>Worked on optimizing existing data pipelines and SQL code enhancements</li></ul>	

## SKILLS

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**Programming Languages:** Python (Pandas, PySpark), C++, SQL, Shell Scripting

**Databases:** SQL Server, AWS Redshift, Snowflake, Postgres, Oracle DB

**Cloud Platform and Tools:** AWS (Glue, S3, Lambda, Athena, SES, Event Bridge, DMS, CloudWatch, EC2, CodePipeline), Git, GitHub Actions, VS Code, Apache Airflow, Jupyter Notebook, CRON, JIRA

**Data Engineering and ETL:** Data Modeling, Data Migration, Data Transformation, Data Validation, Data Pipeline Orchestration, Database Optimization

**Big Data Processing:** Apache Spark (Data Processing and Distribution on Multiple Executors)

**Data Analytics:** MS Excel, Tableau, Power BI, LAAD (Longitudinal Access and Adjudication Data), HCP and Patient Analytics, Salesforce CRM Datasets, Google Analytics Datasets

**Frameworks:** Agile (Kanban), Business Intelligence, OOP, CI/CD

## ACHIEVEMENTS

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### University of Limerick

Merit Scholarship of €2000 during Master's program in Computer Vision and Artificial Intelligence

### Eli Lilly and Company

Awarded the Lilly Rise Award (Q1 2024) for teamwork and innovative contributions in data infrastructure projects

Awarded \$4200 worth of Lilly stocks as part of Annual Performance Appraisal

Received the Lilly Rise Award (Q4 2024) for exceptional productivity and project delivery

### Language Proficiency

IELTS: Overall Band Score : **7.0**

### Hobbies

Online Video Games, Cricket, and exploring music & culture across globe (Been to England, Scotland, Thailand, Vietnam and Azerbaijan)

## PROJECTS

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