

# Abinash Prasana Selvanathan

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📍 Dublin, Ireland

## Profile

MSc Artificial Intelligence student at Dublin Business School with strong programming and analytical skills. Proficient in Python, SQL, and machine learning with hands-on experience in building end-to-end ML models. Former Associate Analyst at Deloitte, supporting hospital IT systems (Epic EMR, ServiceNow, Citrix, M365) and improving workflows through data-driven problem solving. Seeking opportunities in Data Analytics, Machine Learning, and AI engineering.

## Education

- |   |                          |
|---|--------------------------|
| • <b>Dublin Business School</b>                                 | 2025–Present             |
| • <i>MSc, Artificial Intelligence (Pursuing)</i>                | <i>Dublin, Ireland</i>   |
| • <b>Sri Krishna Adithya College of Arts &amp; Science</b>      | 2020–2023                |
| • <i>B.Sc., Computer Technology (First Class, GPA: 7.42/10)</i> | <i>Coimbatore, India</i> |
| • <b>P.A. Polytechnic College</b>                               | 2016–2019                |
| • <i>Diploma in Computer Engineering (69%)</i>                  | <i>Pollachi, India</i>   |

## Projects

- **Hospital Readmission Prediction** (GitHub)
  - Developed an ML pipeline using the Diabetes 130-US Hospitals dataset for readmission prediction.
  - Performed EDA, preprocessing, feature engineering, and classification model evaluation.
  - **Tech:** Python, Pandas, NumPy, Scikit-learn
- **Irish News NLP Classification** (GitHub)
  - Built a complete NLP pipeline to classify Irish news articles by topic and sentiment.
  - Performed text preprocessing (cleaning, tokenisation, stopword removal) and TF-IDF feature extraction.
  - Trained and compared Logistic Regression and SVM classifiers with visual evaluation metrics.
  - **Tech:** Python, NLTK, Scikit-learn, Pandas, Matplotlib
- **Tesla vs GameStop Stock Analysis** (GitHub)
  - Collected stock + revenue data using **yfinance** and web scraping.
  - Visualised trends and created comparative financial insights.
  - **Tech:** Python, yfinance, BeautifulSoup, Plotly

## Skills

- **Languages:** Python, SQL
- **Libraries/Frameworks:** Pandas, NumPy, Matplotlib, Scikit-learn, Plotly
- **Tools:** ServiceNow, Epic EMR, Citrix, VPN, Microsoft 365
- **Platforms:** Linux, Windows Server
- **Soft Skills:** Problem-solving, Communication, Workflow Optimisation

## Work Experience

- |   |                         |
|---|-------------------------|
| • <b>Deloitte</b>   | Nov 2023 – Dec 2024     |
| • <i>Associate Analyst</i>  | <i>Hyderabad, India</i> |
| – Supported HIPAA-compliant hospital IT operations using Epic EMR, M365, and Citrix environments. |                         |
| – Resolved hardware, software, and access issues through ServiceNow, reducing user downtime.      |                         |
| – Conducted root-cause analysis and documented resolutions for audits and compliance.             |                         |
| – Assisted with AD provisioning, patch cycles, and application testing.                           |                         |

## Certifications

- **Machine Learning with Python (V2):** Coursera
- **Data Analysis with Python:** Coursera
- **IBM Data Science:** Coursera

## Publications

- **Advanced Smart Water Dispenser with Ultrasonic Leak Detection:** International Journal of Research Publication and Reviews (IJRPR), Vol. 4, Issue 4, 2023. [Link]