

# Vipin Deshwal

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**Bachelor of Computer Science (Data Science Major) | La Trobe University**

[Email](#) | [LinkedIn](#) | [Github](#)

## Objective

Data Science graduate with proven skills in analytics, machine learning, and cloud systems. Experienced in developing real-time data pipelines, predictive models, and interactive dashboards. Adept at leading cross-functional teams and delivering award-winning solutions. Seeking a graduate role to apply technical expertise in solving real-world business and research challenges.

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## Education

**La Trobe University**, Bundoora, Victoria  
Bachelor of Computer Science (Data Science Major)  
Expected Graduation: Dec 2025

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## Experience

**Data Science Intern** – CTI, La Trobe University | *Mar 2025 – May 2025*

- Built automated pipelines in MongoDB Compass to clean and integrate CAN bus, GPS, and safety datasets.
- Merged 3 data sources using primary keys (vehicle plate, user ID, route number, warning description, round type).
- Implemented per-trial segmentation (180 rounds) and standardized time-based filtering, improving analysis speed by 25%.
- Contributed to a real-time bike rider collision warning system for safety research.
- **Received Letter of Recommendation from Head of Department.**

**Customer Service Attendant** – Viva Energy (Shell Fuel Station) | *Nov 2023 – Present*

- Delivered efficient service in a high-volume retail environment.
- Managed POS transactions, fuel pumps, and store inventory with 100% accuracy.

## Team Lead – Innovation & Industry Challenges

- **La Trobe X Coles Innovation Program | Oct 2024**
  - Led 4-member team to design a data-driven business optimization model.
  - Presented to industry leaders; achieved 1st place out of 10+ teams.
- **La Trobe X CSL Innovation Challenge | Jun 2025**
  - Developed a predictive biotech solution to optimize research processes.
  - Won People's Choice Award and selected to present at CSL's Regional IT Leadership Meeting.
- **La Trobe X St. Vincent Hospital Challenge | Aug 2025**
  - Led 5-member team in developing a healthcare-focused data solution.
  - Secured 2nd place overall and People's Choice Award among 6+ teams.
- **La Trobe X Deloitte X ServiceNow Appathon | Aug 2025**
  - Co-led a 5-member team to build an enterprise workflow automation solution.
  - Won People's Choice Award for innovative design and functionality.

## Peer Tutor (Voluntary) – Data Science Dept., La Trobe University | Sep 2024

- Mentored 15+ students in Python, statistics, and data analysis, increasing average grades by ~15%.
  - Provided 1:1 guidance to improve coding efficiency and problem-solving approaches.
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## Projects

1. **Real-Time Vehicle Safety Data Pipeline** – Designed automated cleaning and integration workflows in MongoDB; applied segmentation and time filters to enhance rider safety analytics.
  2. **Predictive Analytics** – Built stock price prediction models using Linear Regression & Decision Trees; optimized via advanced feature selection, improving accuracy by 12%.
  3. **Big Data Management on Cloud** – Designed scalable cloud storage & ETL pipelines using AWS & Google Cloud to process datasets exceeding 10GB.
  4. **Interactive Dashboards** – Created live Tableau dashboards to monitor customer trends from streaming data, reducing reporting time by 30%.
  5. **Capstone Project (In Progress)** – Developing a web app enabling public telescope live-streaming and remote-control using cloud-hosted services.
  6. **R Shiny Data Science Application (In Progress)** – Built interactive tools to solve complex problems online using R Shiny, improving user engagement by 20%.
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## Technical Skills

- **Programming:** Python, Java, R, SQL, JavaScript
  - **Data Science:** Pandas, NumPy, Scikit-learn, TensorFlow, MATLAB
  - **Visualization:** Tableau, Power BI, Matplotlib, Plotly
  - **Design:** UI/UX (Figma)
  - **Databases:** MySQL, PostgreSQL, MongoDB
  - **Cloud:** AWS, Google Cloud
  - **Other:** Git/GitHub, Linux, Agile, Problem-Solving, Communication
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## Certifications

- Google Data Analytics Certificate
  - AWS Cloud Practitioner
  - Data Science Course by Microsoft
  - AI Fundamentals – ServiceNow University
  - Bystander Training: From Bystander to Upstander
  - Cybersecurity Awareness: Phishing Attacks
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## References

Available upon request