**Vipin Deshwal**

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

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**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.

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

**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.

**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%.

**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

**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

**References**Available upon request