Dhan Raj Rai

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EDUCATION

RMIT University | Master of Artificial Intelligence　　　　　　　City Campus, Melbourne | 02/2024 - 11/2025
- Program GPA – 3.5 / 4 (Distinction)　　　　　　　　　　　　　Achieved Future Leader Scholarship

Delhi Technological University | Bachelor of Technology in Computer Engineering　　Delhi, India | 08/2019 - 07/2023
- Cumulative GPA – 8.92 / 10 (High Distinction)　　　Achieved Indian Council for Cultural Relations Scholarship

KEY SKILLS

- **Programming**: A dedicated programmer with good software engineering skills and practices. Proficient in Python, Java, and JavaScript with experience developing object-oriented systems, websites and mobile applications.
- **Leadership**: A proven leader having coordinated a successful startup IT section and impactful mentoring program and served as representative for sports and physical fitness.
- **Teamwork**: A collaborative team player who strengthens group success through effective communication, as demonstrated in the projects, research and mentoring program.

RELEVENT EXPERIENCES

D.G Archi-Techs' Studio | IT Officer Volunteerism　　　　　　Thimphu, Bhutan | 04/06/2022 - 31/07/2022
- Facilitated quality IT support such as software installation, project management and technical documentation.
- Successfully deployed and integrated essential software tools in a collaborative environment that enhanced team efficiency and project delivery timelines.
- Reduced the average time to resolve IT issues by 20%, improving employee productivity and satisfaction.

Desk Ki Mentor | Mentoring Program　　　　　　　　　　　Delhi, India | 09/01/2022 - 04/05/2022
- Successfully mentored 12th-grade students in programming, prioritizing data structures and algorithms using Python.
- Achieved 100% positive feedback from students for programming guidance and support.

Thimphu TechPark Limited | Software Development Internship　　　Thimphu, Bhutan | 01/06/2021 - 31/07/2021
- Effectively assisted the software developers, implemented the features and debugged the program by consistently following good software engineering and Git and GitHub best practices.
- Administered database operations using SQL databases like MySQL and PostgreSQL.
- Consistently improved code reusability by almost 25% through the object-oriented programming concept.

PROJECTS

Pharmacy Management System | Backend development　　　　　　　　　　　　　03/2024 - 06/2024
- Efficiently designed and developed the system by applying object-oriented programming concepts in Python which significantly improved the reusability and scalability of the program.
- Examined the performance of different data structures for different cases which enhanced the time complexity and improved the space complexity by over 15%.

E-commerce App | Mobile App Development　　　　　　　　　　　　　　　05/2023 - 07/2023
- Successfully built a cross-platform e-commerce mobile application using React Native, Redux, Express & MongoDB (MERN Stack Development).
- Designed good reusable components through a sound software engineering practice that greatly improved the coupling and cohesion factors of the feature components.

NLP Web-Based Data Application　　　　　　　　　　　　　　　　　　04/2021 - 05/2021
- Successfully performed complete data science processes on the data set from data preparation to model deployment.
- Compared various language models to train a classification ML model and built the NLP application using flask.

PUBLICATIONS

Publisher: IEEE | Title: Tweet Analysis: What changed over time?　　　　　　　12/2022 - 10/2023
- Successfully presented the paper in 2023 International Conference on Advanced Computing Technologies and Applications (ICACTA) and got published in IEEE publication. DOI: 10.1109/ICACTA58201.2023.10392313
- Actively collaborated with the supervisor at Delhi Technological University and used the concept of Data Science and Natural Language Processing to analyse the linguistic variations using Machine Learning models.

REFERENCES

- Garima Chhikari, Assistant Professor, Delhi Technological University　　　　　garimachhikara@dtu.ac.in
- Estrid He, Lecturer, RMIT University, Contant No: +61 0452 202 635　　　　　　estrid.he@rmit.edu.au