

RAM RATTAN GOYAL

E: rrgoyal07@gmail.com M: 0439454588 A: 570 Lygon St Carlton VIC 3053 L: <https://www.linkedin.com/in/ram-rattan-goyal>

CAREER PROFILE

Aspiring Data Analyst student with practical knowledge across data science, machine learning, deep learning, website development and devops. Collaborated on diverse projects ranging from robotics to web applications with easily-integrated, expressive coding designs using team development applications like Github. Used state-of-the-art technologies that resided beyond my current knowledge and deployed them on servers. Furthermore, resolved technical issues through timely troubleshooting, logical understanding and usage of debugger tools. With my passion for AI and curiosity to explore more, I possess the relevant communication and sufficient implementation skills for the role of a Data Scientist.

KEY SKILLS

- **Exemplary Task Coordinator** – Apt in data gathering, well-versed in data rectification and exploratory data analysis, adept in selecting the most-appropriate approach and strategies for the data and communicating the findings effectively.
- **Vast Domain Knowledge** – Created projects using logic programming languages, object-oriented programming, domain-specific programming languages and markup languages. Devise new solutions by combining the knowledge of different domains.
- **Eagerly take initiatives** - Drive innovation by taking initiatives to improvise the quality of the solution. Able to grasp things quickly and suggest new strategies. Target punctuality and quality with a creative touch to the product.
- **Adept adaptability** - Possess adaptability, multitasking and balance between code complexity and expressiveness through the medium of technical documentation.
- **Solid ICT knowledge** – Proficient in algorithm development, computational science techniques, and data visualization tools within MATLAB and Excel. Able to critically analyse and discuss scientific ideas and information and apply physics, computational/pure mathematics and critical thinking to define and analyse problems and develop effective solutions in a variety of contexts.
- **Collaborative communicator** – Excel at interfacing with stakeholders, colleagues and team. Able to translate complex technologies to people with a variety of skill levels belonging to either technical or non-technical backgrounds.

COMPUTER / TECHNICAL SKILLS

Python, Java, C++, R Script, Prolog, Answer Set Programming, HTML, CSS, Javascript, Node.js, SQL, AWS, Linux, Animation Designing

KEY PROJECTS

Prediction of electrical consumption, RMIT

May 2022

- Predicted the consumption of electricity based on 28 attributes like temperature and humidity in various rooms of the same place and outside the place, windspeed, etc.
- Assessed the relations between attributes and electrical consumption using distinct graphs and critical judgments.
- Performed detailed analysis and used statistical methods like backward elimination to derive outcomes.
- Implemented more than 5 machine learning models and an artificial neural network to choose the ultimate and best-performing model using metrics like accuracy, r2-score, etc. Presented valid justifications for the same and tested on scaled, unscaled, feature-engineered data after tuning the parameters of the model.

Search and Navigation using Spot Robot, RMIT

June 2022

- Performed the task of autonomous navigation of the BostonDynamics Spot robot from any initial point to a given patient's ward using Python and ROS.
- Used computer vision and integrated it with the camera of the robot to recognize the face of the patient that it is provided with and locate the position of the person on a map of the patient's ward created by the robot.
- Programmed the robot to perform tasks based on voice commands captured through the mic and respond through the external speaker attached to the robot.

EMPLOYMENT HISTORY

Junior Software Developer, Black Console Technologies Pvt. Ltd.

July 2020 to September 2020

Responsibilities

- Sorted, cleaned and performed feature selection on data captured from restaurants.
- Visualized the data using interactive 3-D graphs. Predicted the customer footfall in restaurants on a particular day using machine learning models.
- Used NLP and summarized the contents of a video into video tags or keywords and used an OCR to extract knowledge from screenshots.
- Developed a search engine returning solution videos for search queries. Implemented elastic search for faster performance.
- Performed the database's CRUD operations by using MySQL, MongoDB and Elastic Search.
- Managed the backend of the web applications using Flask in Python and used javascript for the client-side of the web app.
- Deployed the product on the AWS EC2 instance and ensured updates are pushed continuously.
- Refactored the code for better readability and reusability in the future. Troubleshooted and debugged the technical issues faced by other members of the team.
- Coordinated with other team members, integrated outputs with other departments, reported accomplished tasks and demonstrated current progress to senior members.

Achievements

- Promoted to lead a project after delivering the first product.
- Offered a permanent role as a software developer in the startup company.
- Offered a 5% stake in the company.

EDUCATION AND CERTIFICATIONS

Certificate in Python Programming, WeekendR <i>Introduction to Data Science using Python</i>	2016
Certificate in Node.js, Udemy <i>The Complete Node.js Developer Course (3rd Edition)</i>	2020
Certificate in Machine Learning, Udemy <i>Machine Learning A-Z™: Hands-On Python & R In Data Science</i>	2021
Master of Artificial Intelligence, RMIT	2021-Present

REFERENCES

Available on request