
Anmol Agarwal

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Personal Profile

I am a graduate with a master's in computer science degree and a bachelor's in computer science. My coursework covered a range of topics, including programming, algorithms, data structures, database management systems, computer networks, software engineering, and web development. I also have experience with various programming languages such as Java, Python, C++, SQL, HTML, CSS, JavaScript, Flutter, Dart, AWS. Additionally, my master's degree focused on data science, providing me with advanced knowledge in data mining, machine learning, and statistical analysis. Overall, I am a motivated and detail-oriented individual with a passion for utilizing technology to solve complex problems, making me an asset to any organization seeking a skilled and knowledgeable computer scientist.

Social Links

- **LinkedIn**

<https://www.linkedin.com/in/anmol-agarwal-a11676148/>

- **GitHub**

<https://github.com/anmolagarwal025>

Education

The University of Strathclyde

Master's in computer science • Glasgow, United Kingdom

01/2024

– Master's degree in computer science from the University of Strathclyde, Scotland, UK.

– Specialized in Data Science and Software Development.

– Coursework included: Statistical modelling, Machine learning, data mining, data visualization, natural language processing, software engineering, algorithms, and data structures,

– Hands-on project experience in: - Developing predictive models for customer behaviour, Sentiment analysis of social media data, - Designing and developing software applications using Python, SQL, Hadoop, Spark

– Strong foundation in computer science principles and technical skills for handling large and complex data sets.

– Capable of designing and developing robust software applications.

Hindustan College of Science & Technology

Bachelor's in technology: Computer Science • Agra, India

08/2021

– Bachelor of Technology degree in Computer Science from Hindustan College of Science & Technology.

– Comprehensive coursework encompassing: Programming fundamentals, algorithms, and data structures. Database management systems, operating systems, computer networks, software engineering principles, web development techniques.

– Acquired hands-on experience in: Java, Python, C++, and SQL for backend development, HTML, CSS, and JavaScript for front-end design.

- Completed multiple projects showcasing the practical application of theoretical knowledge to address real-world challenges.
 - Developed a robust foundation in computer science principles and technical prescience's across a spectrum of programming languages and technologies.
 - Recognized potential as a valuable contributor to any organization in need of a skilled and technically adept Computer Scientist.
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Skills

C#, Python, Machine Learning, JavaScript, MySQL, HTML, CSS, Bootstrap, Data Analysis, Git, Data Visualization, ASP.NET CORE, GitHub, Dart, Flutter, Application Development, Node.js, Visual Studio

Projects

- **Reinforcement Learning in Game Theory:**
 - Focused on optimizing decision-making in prisoner's dilemma through reinforcement learning.
 - Utilized a Q-learning algorithm paired with deep neural networks to determine the optimal policy.
 - Conducted self-play to train the model, employing the Bellman equation for Q-value updates.
 - Experimented with hyperparameters like learning rate and discount factor, enhancing model performance.
 - Achieved superior outcomes against random agents, indicating potential advancements in AI and machine learning for strategic game play.
 - **Pneumonia Detection Using Deep Learning:**
 - Developed a deep learning model to identify pneumonia from chest X-ray images.
 - Trained on a dataset containing normal and pneumonia-affected images, employing supervised and transfer learning techniques.
 - Achieved high accuracy in distinguishing between normal and abnormal cases, offering improvements in diagnostic processes.
 - **Lane Detection for Autonomous Driving:**
 - Created a lane detection system for self-driving cars with Python, applying computer vision techniques.
 - Enhanced image processing for clearer lane markings and applied edge detection and Hough transform to delineate lane boundaries.
 - Successfully detected and tracked lanes under various conditions, demonstrating the system's applicability to enhance autonomous driving safety.
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Languages

English, Hindi

Hobbies and Interests

Geopolitics, Philosophy, History, Investing, Reading, Chess, Cricket.