

# Nikhil Kumar Singh

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## SUMMARY

Enthusiastic student specializing in Machine Learning, AI, and web development. Skilled in Python and web technologies, with hands-on experience in machine learning algorithms and interactive web applications. Possesses a strong foundation in mathematics and statistics, actively seeking innovative solutions to enhance AI capabilities and user experiences.

## EDUCATION

**B.Tech Computer Science and Artificial Intelligence Engineering**   Sept. 2021 – Present  
*Amrita Vishwa Vidyapeetham, Amritapuri, Kerala*

## PROJECTS

**Blogs: Interactive Blogging Platform**   Aug. 2024 – Sep. 2024

- Developed an interactive blogging platform using React, Node.js, and MongoDB to provide users with an engaging space to share their thoughts and experiences.
- Implemented authentication features with both custom password-based and Google authentication, enhancing user security and experience.
- Utilized AWS S3 for media storage, ensuring efficient and reliable management of images and files.

**Auto Park: Intelligent Parking System**   Mar. 2024 – Jun. 2024

- Developed Auto Park, an advanced reinforcement learning-based self-parking tool, to enhance my skills in reinforcement learning.
- Implemented and fine-tuned reinforcement learning algorithms to improve problem-solving abilities and gain insights into creating efficient solutions for autonomous parking systems.

**PneumoVision: Innovative Pneumonia Detection Model**   Aug. 2022 – Oct. 2022

- Addressed inefficiencies and inaccuracies in existing pneumonia detection methods, leading to delays in medical intervention.
- Improved the accuracy and efficiency of pneumonia detection, facilitating timely and effective medical interventions and potentially saving lives.

## SKILLS

**Languages:** Java, Python, JavaScript   **Machine Learning:** Deep Learning, Computer Vision, NLP, LLMs, MLOps  
**Frameworks:** TensorFlow, PyTorch, Scikit-learn, React, Node.js   **Web Development:** HTML, CSS, React, Node.js  
**Database:** SQL, PostgreSQL, MongoDB   **Cloud Platforms:** AWS, Azure, GCP   **Tools:** Git, GitHub, Docker, Kubernetes, CI/CD   **Networking:** TCP/IP, HTTP, REST, WebSockets   **Operating Systems:** Linux, Windows   **Data Visualization:** Matplotlib, Seaborn, Plotly

## COURSES

**Developing Large Language Models, DataCamp**   Feb. 2024 – Jun. 2024  
[Certificate Link](#)

- Gained comprehensive knowledge of LLM architecture and functionality.

**Generative AI with Large Language Models, Coursera**   Sept. 2023 – Nov. 2023  
[Certificate Link](#)

- Explored fundamentals and advancements in Generative AI and LLMs.

**Machine Learning A-Z™: AI, Python & R + ChatGPT Bonus [2023], Udemy** Dec. 2022 – Apr. 2023  
[Certificate Link](#)

- Completed extensive training in Machine Learning with practical applications using Python and R.
- Studied a wide range of machine learning algorithms, including supervised and unsupervised learning techniques.
- Received additional content on ChatGPT, covering its architecture, fine-tuning, and practical use cases.