

Pinakeshwar Vaishnav

[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

Professional Profile

A highly motivated, results-oriented, and self-driven technology professional with comprehensive expertise spanning **Full Stack Web Development** and cutting-edge **Artificial Intelligence (AI) and Machine Learning (ML)**. Passionate about architecting and developing innovative, end-to-end solutions that solve complex problems and deliver tangible value. Proven ability to rapidly master new technologies and methodologies, demonstrated through extensive project-based learning and successful completion of the rigorous Full Stack Open curriculum. Adept at leveraging a versatile skillset—encompassing frontend (React, Next.js), backend (Node.js), and advanced AI/ML techniques (Python, PyTorch, Scikit-learn, NLP, Generative AI concepts, LLM understanding)—to build robust, scalable, and intelligent applications. Committed to continuous learning and applying best practices to contribute significantly to impactful projects in either AI-focused or Full Stack engineering roles.

Core Competencies & Technical Skills

1. AI & Machine Learning Engineering:

- **Languages & Libraries:** Python (Proficient), Pandas, NumPy, Matplotlib, Seaborn
- **ML/DL Frameworks:** PyTorch, Scikit-learn
- **Specializations:**
 - Deep Learning: Convolutional Neural Networks (CNNs), Recurrent Neural Networks (RNNs), Transformers
 - Natural Language Processing (NLP): Text Preprocessing, Sentiment Analysis, Topic Modeling, Named Entity Recognition (NER), NLTK, SpaCy
 - Generative AI: Understanding of Large Language Models (LLMs), Prompt Engineering principles, Core concepts of Retrieval-Augmented Generation (RAG)
- **Model Lifecycle:** Data Collection & Preprocessing, Feature Engineering, Model Training & Evaluation, Basic understanding of model deployment strategies.
- **Problem Solving:** Applying ML/DL to solve real-world problems in areas like computer vision, text analysis, and predictive modeling.

2. Full Stack Web Development:

- **Frontend:** JavaScript (ES6+), TypeScript, React, Next.js, HTML5, CSS3, Tailwind CSS, Responsive Design
- **Backend:** Node.js, Express.js
- **APIs:** RESTful API Design & Development, GraphQL
- **Databases:**
 - NoSQL: MongoDB (Data Modeling, Mongoose)
 - SQL: PostgreSQL
- **Architecture:** Microservices understanding, MVC/MVVM patterns

3. Software Engineering & DevOps Fundamentals:

- **Version Control:** Git, GitHub (Workflows, Branching Strategies)
 - **Containerization:** Docker (Image Creation, Container Management)
 - **CI/CD:** Basic understanding and experience with tools like GitHub Actions
 - **Testing:** Unit Testing, Integration Testing concepts
 - **Agile Methodologies:** Familiarity with Agile/Scrum principles
 - **Problem Solving & Analytical Skills:** Strong ability to analyze requirements, identify solutions, and debug complex issues.
 - **Communication & Collaboration:** Effective in remote team environments (Zoom, Slack).
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Education

- **Full Stack Open** – University of Helsinki
 - *Description:* Successfully completed a comprehensive and intensive program focused on modern Full Stack Development, covering JavaScript, React, Redux, Node.js, Express.js, MongoDB, GraphQL, REST APIs, TypeScript, CI/CD, and Containers. Emphasized practical application and project-based learning.
 - *Certificate:* [University of Helsinki](#)
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