

ARYAN NOURBAKHS

AI / Software Engineer

 [Portfolio](#)

 (+98) 912-239-5325

 aryan.nourbakhsh@gmail.com

 [Github](#)

 [LinkedIn](#)

ABOUT ME

I'm an AI engineer focused on multimodal learning, deep learning, reinforcement learning, and computer vision, with 3 years of frontend development experience. I use both sides of that background to turn AI ideas into practical, user-friendly products. I'm strongest where AI and product engineering meet: shaping models, evaluating ideas, and turning them into interfaces people can understand and use.
really recommend you to visit my portfolio.

EDUCATION

Sep 2021 - Sep 2025

Bachelor's Degree - Computer Engineering

BNUT - Babol Noshirvani
University of Technology

Sep 2025 - Present

Master of Computer Hardware Engineering

BNUT - Babol Noshirvani
University of Technology

SKILLS

- Languages: Python, JavaScript (JS), TypeScript (TS), HTML5, C#, Java, Verilog
- AI & Machine Learning: Deep Learning, Reinforcement Learning (DQN), Computer Vision, TensorFlow, Keras, SpaCy, scikit-learn, OpenCV, MediaPipe
- Data Science & Analytics: NumPy, Pandas, Polars, Matplotlib, Seaborn, PowerBI, Altair
- Frontend Web: ReactJS, NextJS, Redux, zustand, TanStack Query, Tailwind, CSS, Sass
- Backend, Databases & Tools: FastAPI, Django, MongoDB, SQL, Docker, Git, Selenium, BeautifulSoup (BS4), Agile/Scrum

EXPERIENCE

Nov 2025- Present

Software Engineer

ABHP - Babolsar (Full Time) - [abhp.ir](#)

- Define best pre-trained models or architectures for AI parts of products.
- Develop frontend projects using NextJS and ReactJS.
- Lead daily standups and sprint planning as Scrum Master.
- Conduct comprehensive E2E testing on newly developed features.

Oct 2023 - Present

Head Teaching Assistant

BNUT - Babol Noshirvani University of Technology

- Data Structures - Dr. Hesam Omranpour - 3 semesters
- Advanced Programming - Dr. Mehdi Emadi - 2 semesters
- Advanced Programming - Dr. Mostafa Taghizadeh - 2 semesters
- Fundamentals of Computer Vision - Dr. Mehdi Ezoji - 1 semester
- Fundamentals of Artificial Intelligence - Dr. Fatemeh Zamani - 1 semester

Apr 2025 - Jun 2025

AI Engineering Bootcamp Participant

Starcoach | Sharif Science & Technology Park

- ATS - Developed an Applicant Tracking System (ATS) using cosine similarity and Euclidean distance.
- Hospital Management - Developed a preliminary data management system using MongoDB to handle CRUD operations for hospital operations.
- GoEmotions Predictor - Trained and deployed a Natural Language Processing model using SpaCy based on the GoEmotions dataset to classify text into granular emotional categories.

Jan 2024 - Oct 2025

Freelance Frontend Developer

Freelancing

- Mizban Software Development - Web-based hosting management platform. ([src](#))
- Villahub - Developed a property rental and reservation platform using NextJS.
- Salonhub - Salon and beauty service booking platform.
- Algonit - System which is designed for Algonit competitions.
- Scheduler - System which is responsible for event managing and time reserving.

Other Projects & Volunteering

- Typing Speed Recommender System - Developed a Reinforcement Learning model using DQN to optimize and enhance user typing speed.
- CIFAR-10 Image Classification - Designed and trained a CNN using TensorFlow to classify images from the CIFAR-10 dataset.
- Wifi Latency Data Analysis - Performed exploratory data analysis and visualization on network latency data using Pandas, Seaborn, and NumPy. ([src](#))
- Facial Symmetry Analyzer - Built a computer vision pipeline utilizing OpenCV and MediaPipe to detect and analyze facial landmarks for symmetry.
- Image Processing Workshop Instructor: Conducted a foundational workshop on image processing using Python. ([src](#))
- Flickr8k Multimodal Learning Study - Built a comparative pipeline for classical retrieval, CNN-LSTM captioning, CLIP retrieval, and BLIP captioning.