FARDIN DEREGE

Data Science & AI Engineer

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Kermanshah, Kermanshahy

SUMMARY

Data Scientist with hands-on experience developing intelligent, scalable AI solutions in climate control, healthcare, and NLP. Skilled at deploying ML systems that improve performance, optimize outcomes, and deliver measurable results.

EDUCATION

Islamic Azad Uni. Kermanshah Branch
Bachelor of Computer Engineering (2022-present)

Islamic Azad Uni. Kermanshah Branch
Research Director, Computer Science Scientific Association

SKILLS

- **Languages & Tools:** Python, SQL, Git
- **Specialized Domains:** Computer Vision, NLP, Time Series, Climate Forecasting, Healthcare AI
- **Deployment & Visualization:** FastAPI, Docker, Matplotlib
- **Workflow & Collaboration:** Agile, Scrum, GitHub, Research Coordination
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- **AI & ML Expertise:** Supervised/Unsupervised Learning, Neural Networks, SHAP, Evaluation Metrics
- **Libraries & Frameworks:** NumPy, Pandas, Scikit-learn, TensorFlow, Keras

PROFESSIONAL EXPERIENCE

AI Instructor – Codyad Academy
Remote | 2025–Present

- Teach Python, machine learning, and AI system deployment to global students.
- Create real-world coding labs on NLP, computer vision, and ethics in AI.
- Support learners in portfolio-building and career pathways in data science.

AI Engineer Expert — RADMAN Tech Group
|2024-Present

- Designed and deployed a fuzzy logic-based climate control system in smart greenhouses, reducing temperature fluctuation by 40% and improving energy
- Analyzed over 100,000 hotel booking records to uncover trends in cancellations, booking lead time, seasonal demand, and customer segments.
- Developed a Persian-language sentiment analysis system to classify Snapfood online food service reviews using machine learning and NLP techniques.
- Designed and deployed multiple production-grade AI automation systems using n8n, FastAPI, and LLM-based agents.
- Developed a U-Net-based segmentation model using the 2018 Data Science Bowl dataset for biomedical image analysis. Achieved 90%+ Dice coefficient on validation data, demonstrating high precision in cell boundary detection