o g u z h a n   d o g r u

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// about me _____

Witnessing machines making intelligent decisions fascinates me. I have a track record in process control, machine learning, and data science. I'm working on some of my faculty's most innovative and challenging projects. I developed cutting-edge products for our MNC partners in the energy, process automation, and manufacturing sectors. I've worked for the biggest oil company in Turkey, reporting to C-level executives. Leading project teams working under pressure granted me excellent communication and process optimization skills. I'm looking to sharpen my skills in a fast-paced and energetic organization.

keywords| Python (Tensorflow, Pytorch, Scikit-learn, OpenCV, Scipy), Matlab, Simulink, Tableau, Chemcad, Maple, Polymath, COMSOL, ALOHA, Minitab, ASPEN (Plus, HYSYS, FSA), GAMS, Cplex

// experience _____

Research Assistant   *Sept. 2018 - Present*
University of Alberta | Edmonton, Canada

- Developed AI and control tools for MNCs: Cenovus, Emerson, Exxon, Shell, Suncor, Syncrude, Teck Metals, etc.

- Designed ML models for state estimation & process control utilizing computer vision, and reinforcement learning.

- Built and managed process control teams, hiring and training co-op students for NSERC, Alliance & COSIA projects.

Research and Development Engineer   *Jul. 2017 - Jul. 2018*
TUPRAS | Kocaeli, Turkey

- Modeled gas treatment plants to improve production efficiency, reducing carbon footprint and operational costs.

- Trained process engineers and operating personnel on hazardous gas treatment plants.

- Examined & improved various downstream plants with abnormalities using Kaizen methodology & HAZOP.

Intern   *Jul. 2016 - Sept. 2016*
Technical University of Cologne | Köln, Germany

- Researched physical & chemical properties of PET utilizing various instruments to analyze recycling efficiency.

// education _____

Ph.D. in Process Control, Chemical Engineering | University of Alberta   *Expected Aug. 2022*
Awarded Captain Thomas Farrell Greenhalgh Memorial Scholarship for academic excellence in chemical engineering.

B.Sc. in Chemical Engineering | Hacettepe University   *Sept. 2012 - Jun. 2017*
Prof. Dr. Abdurrahman Tanyolac Award for designing innovative & eco-friendly ethylene glycol and paper production plants.