

ALI REZA IBRAHIMZADA

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Marmara University Goztepe Campus, Egitim Mah.

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EDUCATION

Marmara University, Istanbul, Turkey Bachelor of Science Department of Computer Engineering	June 2020 - Present CGPA: 3.98/4.00
Istanbul Sehir University, Istanbul, Turkey Bachelor of Science Department of Computer Science and Engineering	August 2018 - June 2020 CGPA: 3.96/4.00
Khana-e-Noor, Mazar-e-Sharif, Afghanistan High School	March 2014 - January 2017 Grade: 99%. Rank: 1

PROFESSIONAL EXPERIENCE

Marmara University, Istanbul, Turkey Research Student	July 2021 - Present
University of Illinois Urbana-Champaign, IL, USA Research Intern	May 2021 - Present
Istanbul Technical University, Istanbul, Turkey Research Intern	June 2020 - September 2020
Istanbul Sehir University, Istanbul, Turkey Research Assistant, Bioinformatics and Databases Lab	June 2019 - June 2020

TEACHING EXPERIENCE

Istanbul Sehir University, Istanbul, Turkey Teaching Assistant	September 2019 - June 2020
Activities and Responsibilities: Preparing assignments, grading assignments, grading exams, holding practice sessions, and holding office hours.	
- ENGR 101 (Introduction to Programming) in Fall 2019	
- ENGR 102 (Programming Practice) in Spring 2020	

RESEARCH EXPERIENCE

Marmara University, Istanbul, Turkey Research Student	July 2021 - Present
- Deep learning for stereo image depth estimation	
- more activities TBD	

University of Illinois Urbana-Champaign, IL, USA **May 2021**
Research Intern **- Present**

- Designed and developed a Test Oracle using deep learning models
- more activities TBD

Istanbul Technical University, Istanbul, Turkey **June 2020**
Research Intern **- September 2020**

- Designed and developed a clustering-based framework for predicting student success
- Extended the proposed framework with the novel statistical learning algorithms
- Evaluated the proposed framework on a real life student-course dataset
- The proposed framework improved the state of the art methods by nearly 36%

Istanbul Sehir University, Istanbul, Turkey **June 2019**
Research Assistant, Bioinformatics and Databases Lab **- June 2020**

- Designed and developed a hierarchical-based framework for classification of living organisms
- Designed and developed a supervised learning model for predicting the pre-disposition to colorectal cancer
- Evaluated and compared the performance of the models with the state of the art methods
- The proposed models improved the state of the art methods both in terms of accuracy and f1 score

DEVELOPMENT EXPERIENCE

Marmara University, Istanbul, Turkey **June 2020**
Projects **- Present**

- *Certificiency*: We designed and implemented an Event Management System which eases the process of event creation, event management, and issuing e-certificates to participants of an event. Certificiency is based on a peer-to-peer architecture and it is specifically built for big institutions.
- *Data Labeling System*: We designed and implemented a Data Labeling System for labeling instances of different datasets using Java. Users can load their datasets in a pre-defined format, and the application exports many useful metrics which helps in understanding the quality of labeled data.
- *Zoom Poll Analyzer*: We designed and implemented a Poll Analysis System for analyzing poll results of Zoom using Python. Users can load their student lists, answer keys and polls based on a pre-defined format. The application exports different statistics and reports ranging from attendance to clustering analysis for cheat detection.

- *Smart Advisor*: An intelligent web-based agent which uses machine learning to help students predict their letter grades before registering to a course. Instructors can follow their advisees progress and view different statistics of the class. Students can rate their courses and instructors which affects later predictions.

PUBLICATIONS

Journal Publications

- J1.** Sohsah, G., Ibrahimzada, A. R., Ayaz, H., & Cakmak, A. (2020). Scalable Classification of Organisms into a Taxonomy Using Hierarchical Supervised Learners. *Journal of Bioinformatics and Computational Biology*. doi: [10.1142/S0219720020500262](https://doi.org/10.1142/S0219720020500262)

Conference/Workshop Publications

- C1.** Cakmak, A., Ibrahimzada A. R., Arikan, S., Ayaz, H., Demirkol, S. et al. (2019). Predicting the Predisposition to Colorectal Cancer based on SNP Profiles of Immune Checkpoints Using Supervised Learning Models. *VII. International Molecular Medicine Congress*, 20-21. ([congress book](#)) ([full-text](#))

Manuscripts under review

- M1.** Ibrahimzada, A. R., & Cakmak, A. (2020). Predicting Student Grades in Courses: A Clustering-Based Approach. *IEEE Transactions on Learning Technologies*.
- M2.** Cakmak, A., Ibrahimzada, A. R., Arikan, S., Ayaz, H., Demirkol, S. et al. (2021). Predicting the Predisposition to Colorectal Cancer based on SNP Profiles of Immune Phenotypes using Supervised Learning Models. *Computers in Biology and Medicine*.
- M3.** Reyhaneh Jabbarvand, Ali Reza Ibrahimzada, Dilara Tekinoglu, and Yigit Varli. 2021. Revisiting The Oracle Problem: Learning The Semantic Relationship Between Inputs and Outputs. *Programming Language Design and Implementation*

HONORS AND AWARDS

- Academic Achievement Scholarship, 100% scholarship in accordance with high GPA in 2019-2020, 2020-2021, and 2021-2022 academic years. Istanbul Sehir University & Marmara University. **July 2019**
- Valedictorian of graduating classes in high school. Khana-e-Noor Educational Network. **January 2017**
- Travel Award for attending QUEST-2015, 4th International Festival of Biotechnology in Lucknow, India. Khana-e-Noor Educational Network. **August 2015**

ACTIVITIES

- Team leader, 11th Afghanistan National Science Competition, Kabul, **September 2016**
Afghanistan
- Team member, 4th International Festival of Biotechnology, Lucknow, **August 2015**
India

TEST SCORES

TOEFL iBT (CEFR Level B2) **October 2021**
Education Testing Service (ETS) **- October 2023**

Reading	Listening	Speaking	Writing	Overall
–	–	–	–	–

IELTS Academic (CEFR Level B2) **February 2017**
British Council **- February 2019**

Reading	Listening	Speaking	Writing	Overall
6.5	7.5	6.0	6.5	6.5

LANGUAGES

- Persian - Native or bilingual proficiency
- Pashto - Native or bilingual proficiency
- English - Full professional proficiency
- Turkish - Professional working proficiency