Hacettepe University
Computer Engineering - Artificial Intelligence Engineering

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TÜSEB Project Support

The project named "Large Scale Prediction of Cancer Cell Line Drug Response with Deep Learning Based Pharmacogenomic Modelling" proposed by Assoc. Prof. Tunca Doğan has been accepted by TÜSEB.

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Mission-Vision

The mission of the Computer Engineering Department is to conduct research at the international level and to produce solutions to industrial problems; to produce graduates capable of understanding the basic concepts of the discipline, who can apply their knowledge, skills and experience in a creative way, who serve their communities and society with a strong ethical responsibility, and who have lifelong learning and teamworking skills.

The vision of the Computer Engineering Department is produce graduates that the academia and society need both in the national and international arena and who shape the future beyond solving day to day problems.

Educational Objectives of the Program:
Hacettepe University Computer Engineering graduates;

1. Have careers in the IT industry.
2. Pursue postgraduate degrees.
3. Assume roles in leadership and entrepreneurship within the sectors they work in.

Program Outputs:

1. Adequate knowledge in mathematics, science and computer engineering subjects; ability to use theoretical and practical knowledge in these areas in complex engineering problems.
2. Ability to identify, define, formulate and solve complex engineering problems; the ability to select and apply appropriate analysis and modeling methods for this purpose.
3. Ability to design a complex system, process, device or product to meet specific requirements under realistic constraints and conditions; the ability to apply and implement modern design methods for this purpose.
4. Ability to develop, select and use modern techniques and tools necessary for the analysis and solution of complex problems encountered in engineering applications; ability to use information technologies effectively.
5. Ability to design, conduct experiments, collect data, analyze and interpret results for the study of complex engineering problems or research topics specific to computer engineering.
6. Ability to work effectively in disciplinary and multidisciplinary teams; self-study skills.
7. Ability to communicate effectively in oral and written Turkish; knowledge of at least one foreign language; Ability to write effective reports and understand written reports, to prepare design and production reports, to make effective presentations, to give clear and understandable instructions and receiving skills.
8. Awareness of the necessity of lifelong learning; the ability to access information, follow developments in science and technology, and constantly renew oneself.
9. Acting in accordance with ethical principles, awareness of professional and ethical responsibility; information about standards used in engineering applications.
10. Knowledge about business practices such as project management, risk management and change management; awareness about entrepreneurship and innovation; information on sustainable development.
11. Knowledge of the effects of engineering applications on health, environment and safety in universal and social dimensions and the problems reflected in the engineering field of the age; awareness of the legal consequences of engineering solutions.
12. Knowledge of probability, statistics and discrete mathematics for solving complex computer engineering problems.

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