



Internship Evaluation & Reporting

Thank you for taking the time to complete this form, this evaluation will be used to assess the student's participation in the internship program.

Supervisors, using the form below please evaluate the student who interned with your organization, institution, or business. You can fill out this form electronically or you can fill it manually but eventually it must be signed and stamped from the company's side.

Please note that part I & III should be completed by the intern, part II should be completed by the direct supervisor in the company.

Part I. GENERAL INFORMATION – STUDENT'S INPUT								
Student Info:								
Student Name: Ashraf Ezzeldin Mahmoud Teleb GUC Student ID No.: 43-15867	_							
Faculty: MET Major: CSEN	_							
Student Mobile No.: 01001541078								
Internship Info:								
Company Name: German Research Center for Artificial Intelligence, DFKI GmbH								
Core Industry/Business: Artificial Intelligence Country: Germany								
Supervisor Name: Yongzhi Su Supervisor Job Title: Researcher								
Supervisor Tel. No.: <u>+49 631 20575-3416</u> Supervisor Mobile No.:								
Supervisor E-mail: yongzhi.su@dfki.de Training Department(s): Augmented Vision								
Source of internships: (1) SCAD office (2) on my own Referrals from GUC TA/Dr. (4) Recruitment website (5) others:								
Work Place: Organization (2) Head Office (3) Branch (4) Factory (5) Site (6) Others:								
Part II. EVALUATION AND COMMENTS - DIRECT SUPERVISOR'S INPUT								
Period of Internship (dd/mm/yyyy) (dd/mm/yyyy)								
From: _ 01 _/_09 /_ 2021								
Internship nature (Enrollment Status)								
☐ Part time Please specify, no. of Days per week: hours per day :								
X Full time Please specify, no. of Days per week: 5 hours per day : 8								
Company Stamporschungszentrum								
für Künstliche irreingen 122 Trippstadter Straße 122								
D-67608 Kaiserslautern								
For SCAD internal use only								
Serial no. SCAD Comment Academic Reviewer Comment Academic Reviewer Signa	ture							
│ │ │ │ │ │ │ │ │ Accepted □ Rejecte	d							
Reason of rejection:								
Signature:								



Arabic

English German

Other:



Please evaluate student's performance by marking the appropriate box:

For each of the following aspects, please mark the box in the rating scale that most closely corresponds to your evaluation of the profile of the student during the internship period. Please also feel free to offer comments and suggestions for changes and improvements in the space provided at the end of the form.

1=Unsatisfactory	2=Below Average 3=Satisfactory			4=Above Average			5=Excellent	
			1	2	3	4	5	NA.
Skills & Profession	onal Attributes		_		3	1 4	5	NA
Ability to adapt to						T	X	
Analytical skills							X	
Collecting data/ res	search data skills					×		
Creativity						X		
Follow up skills								X
	with peers, supervisor	s, and clients					X	
Problem solving							X	
Punctuality							×	
Reporting skills							X	
Responsibility and	accountability						X	
Stress handling								X
Taking initiatives								X
Teamwork								X
Time management							×	
Other:								
Technical Backgr	round							
Technical Knowled	ge						×	
Compatibility of te	chnical skills with the jo	ob					×	
Other:								
Command of Lan	guages							

X

X





	2=Below Average	3=Satisfactory	4=Above Average 5=Excel					cellent
			1	2	3	4	5	NA
Computer Program Please use space below in accordingly		software used during the	nternship	and ev	aluate s	tudent's	performa	nce
Deep learning							×	
Python							×	
	Improvement	formance and profi Meets		ceeds				
Unsatisfactory	needed	expectations		expectations Exception			otional	NA
				<u> </u>				
He produced agod re	many man our compo	ute cluster. He worked	with co	mplex	deep			ged s.
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present that clearly. H	esults, and was able		twork le	earned	specif	learning	g model meters	s. and
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present that clearly. It to present his topic cl	esults, and was able	to analyse how the ne aged working with diff	etwork le	earned	specif	learning ic para data, a	g model meters and was	s. and able
present that clearly. It to present his topic cl	esults, and was able to the successfully mana- learly. The candidates would to the and qualify for job	to analyse how the ne aged working with diff fit in the o needs?	etwork lefterent ty	earned	specif	learning ic para data, a	g model meters and was	s. and able
present that clearly. It to present his topic of the present his topic	esults, and was able to the successfully manual learly. I candidates would to and qualify for job	to analyse how the neaded working with different fit in the needs?	Yes	earned	specif	learning ic para data, a	g model meters and was	s. and able





Internship Title: Deep Learning Internship.

Company / Organization Name: German Research Center for Artificial Intelligence, DFKI GmbH.

Introduction:

Doing an Internship in Machine Learning at *German Research Center for Artificial Intelligence, DFKI GmbH* is wonderful as it is the future as it is used in a lot of fields.Behind all of that, I learned how to comminucate and work with professional, hardworking engineers. I was working in the augmented vision department, doing image segmentation and depth perception models, which can work in 2D RGB images. In this report, we will talk about DFKI GmbH and the services that they offer. Then we will talk about the tasks that I did in the internship and what I learned from it.

Company / Organization Description:

The **German Research Center for Artificial Intelligence** (German: Deutsches Forschungszentrum für Künstliche Intelligenz, **DFKI**) is one of the world's largest nonprofit contract research institutes for software technology based on artificial intelligence (AI) methods. DFKI was founded in 1988, and has facilities in the German cities of Kaiserslautern, Saarbrücken, Lübeck, Oldenburg, Osnabrück, Bremen, Darmstadt and Berlin. DFKI conducts contract research in virtually all fields of modern AI, including image and pattern recognition, knowledge management, intelligent visualization and simulation, deduction and multi-agent systems, speech- and language technology, intelligent user interfaces, business informatics and robotics. DFKI led the national project Verbmobil, a project with the aim to translate spontaneous speech robustly and bidirectionally for German/English and German/lapanese.

Internship Performed Tasks:

The title of my topic is Iterative Single Image Depth Prediction and Semantic Segmentation. In this intern, different techniques have been tested to merge the semantic segmentation model and depth model iteratively as the features of each model will be merged with RGB image to enhance the other model. PSPNet, which is a semantic segmentation model, has been used as a base model for semantic segmentation in addition to depth, in order to obtain the depth model, the output layers have been modified and the loss function has been adapted. Finally, the proposed model has been trained and validated on the SUN-RGBD dataset against the state-of the-art. And the experiments found that, training the models starting with a helper pretrained model acts better than training the two models together from scratch.

Internship Evaluation:

In this internship, I learn how to solve the problems which I face during doing my tasks and how to read a scientific research paper as it is an important skill in machine learning. This intern makes me satisfied and encourages me to do something like it again. Doing an internship in a research centre like DFKI helps me in my future career as it will help in my academic life. This internship was in Deep Learning in Computer Vision, which is very important for any field in computer science. This intern is related to some of my academic courses, such as Machine Learning and Artificila Intelligence.

Conclusion:

The main purpose of this internship was to make a model which does Depth Prediction and Semantic Segmentation in an iterative way using 2D RGB images. It was a great opportunity to have this internship with a special and cooperative supervisor to enhance my experience and learn how to deal with complex machine learning models. Doing this internship in Germany makes me improve my communication skills. So I recommend this internship to my colleagues for them to start their careers with a rewarding internship at a fantastic firm and gain experience with a real-life job that is different from academic life at university.

Please rate your satisfaction with the internship experience.

GUC German University in Cairo الجامعة الألمانية بالقاهرة					STUDENT Coreer & Alumni D
Very satisfied	\square Somehow satisfied	\square Neutral	\square Somehow dissatisfied	\square Very dissatisfied	
Would you recomme	end this internship to other	colleagues?			
Yes	□ No	☐ Maybe			
References:					
5-161					

DFKI: https://www.dfki.de/web

PSPNet: https://paperswithcode.com/method/pspnet

SUN-RGBD: https://paperswithcode.com/dataset/sun-rgb-d

Disclosure / Confidentiality Agreement

This agreement is to acknowledge that the information provided by any company / organization during the internship is unique to this business and confidential.

Therefore, anyone reading this agreement agrees not to disclose any of the information provided during the internship without notifying & taking the employer's / supervisor's approval.