

# Vaibhav KASTURIA

## PERSONAL DATA

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PLACE OF BIRTH: Delhi, India  
DATE OF BIRTH: 18 November 1992  
NATIONALITY: Indian  
EMAIL: [vbh18kas@gmail.com](mailto:vbh18kas@gmail.com)  
LINKEDIN: [vkasturia](#)  
TWITTER: [vbhvkas18](#)  
GITHUB: [vkasturia](#)  
SKYPE: [vaibhav.kasturia1](#)  
WEBPAGE: [vkasturia.github.io](#)

## WORK EXPERIENCE

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AUG 2018 - PRESENT	Research Associate at UNIVERSITY OF HALLE-WITTENBERG, Halle (Saale) Query Understanding via Entity Linking Total Recall in Systematic Reviews Argumentative Axiomatic Re-Ranking
MAY 2018 - JUL 2018	Research Associate at FRAUNHOFER IAIS, Bonn Development of a Question-Answering System for client companies.
OCT 2016 - JAN 2018	Student Assistant at L3S RESEARCH CENTER, Hannover Semantic and Entity-based exploration of Web Archives ( <a href="#">ALEXANDRIA Project</a> )
AUG 2014 - JAN 2015	Intern (Software Developer) at ESRI, Sharjah Handled Multidimensional Data (GRIB, NetCDF, HDF, etc.) Analysis of Raster, Mosaic and Image Service Data Layers. Fixed bugs and changes requested for ArcGIS 10. Validated UI functioning of Raster and Geo-Processing Tools of ArcGIS Pro. Removed potential defects (by Coverity Analysis) in Raster Solutions of ArcGIS 10.
JUN 2013 - AUG 2013	Intern at FORTIS HEALTHCARE, Delhi Assisted in the handling of EWS patients and Medico-Legal Cases. Suggested improvements for the Day-Care Centre procedures.
MAY 2011 - JUL 2011	Summer Intern at GYAN RESEARCH AND ANALYTICS, Delhi Prepared an assessment report of the Indian Chemical Industry using secondary research sources.

## EDUCATION

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2015-18	Master of Science in INTERNET TECHNOLOGIES AND INFORMATION SYSTEMS (ITIS) <b>Leibniz University Hannover</b> , Hannover Major: Data and Information Research Project: "Building & Querying Semantic Layers for Web Archives" Thesis: "Ranking Archived Documents for Structured Queries on Semantic Layers" Examiners: <a href="#">Prof. Dr. Eirini NTOUTSI</a> , <a href="#">Prof. Dr. Wolfgang NEJDŁ</a> Supervisor: <a href="#">Dr. Pavlos FAFALIOS</a> GPA: 1.1 (German Scale) <a href="#">  Detailed List of Exams</a>
2011-15	Bachelor of Engineering (Hons.) in COMPUTER SCIENCE <b>Birla Institute of Technology and Science - Pilani</b> , Dubai Thesis: "Software Development Practices at ESRI" GPA: 1.1 (German Scale), 9.77 (Indian Scale) <a href="#">  Detailed List of Exams</a>

## TEACHING

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SS 2020	Foundations of Computer Science and Concepts of Modeling-II (Exercises)
WS 2019/20	Search Algorithms (Exercises)
WS 2019/20	Foundations of Computer Science and Concepts of Modeling-I (Exercises)
SS 2019	Project Internship (Supervision)
SS 2019	C Programming (Exercises)
WS 2018/19	Object Oriented Programming (Exercises)

## PUBLICATIONS

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Nov 2019	<a href="#">WEBIS AT TREC 2019: DECISION TRACK</a> A. Bondarenko, M. Fröbe, <b>V. Kasturia</b> , M. Völske, B. Stein and M. Hagen 28th International Text Retrieval Conference (TREC'19) Gaithersburg (Maryland, USA)
JUN 2018	<a href="#">RANKING ARCHIVED DOCUMENTS FOR STRUCTURED QUERIES ON SEMANTIC LAYERS</a> Pavlos Fafalios, <b>Vaibhav Kasturia</b> and Wolfgang Nejdl ACM/IEEE-CS Joint Conference on Digital Libraries (JCDL'18) Fort Worth (Texas, USA)
NOV 2017	<a href="#">BUILDING AND QUERYING SEMANTIC LAYERS FOR WEB ARCHIVES (EXTENDED VERSION)</a> Pavlos Fafalios, Helge Holzmann, <b>Vaibhav Kasturia</b> and Wolfgang Nejdl International Journal on Digital Libraries (IJDL)
JUN 2017	<a href="#">BUILDING AND QUERYING SEMANTIC LAYERS FOR WEB ARCHIVES</a> Pavlos Fafalios, Helge Holzmann, <b>Vaibhav Kasturia</b> and Wolfgang Nejdl ACM/IEEE-CS Joint Conference on Digital Libraries (JCDL'17) Toronto (Ontario, Canada)
JUN 2017	<a href="#">TOWARDS A RANKING MODEL FOR SEMANTIC LAYERS OVER DIGITAL ARCHIVES</a> Pavlos Fafalios, <b>Vaibhav Kasturia</b> and Wolfgang Nejdl ACM/IEEE-CS Joint Conference on Digital Libraries (JCDL'17) Toronto (Ontario, Canada)

## TECHNICAL PROFICIENCY

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<b>Programming Languages:</b>	JAVA (Advanced), Python (Intermediate), C/C++ (Intermediate)
<b>Semantic Web Technologies:</b>	RDF, OWL, SPARQL (Apache Jena, sparqlwrapper)
<b>Entity Recognition:</b>	AWS Comprehend, MITIE, LingPipe NER, DeepPavlov, Stanford NER, OpenNLP
<b>Entity Linking:</b>	Nordlys, Dexter, Dandelion API, Yahoo FEL, TAGME Babelify, TextRazor, Ambiverse, Falcon
<b>IDE Software:</b>	IntelliJ, Visual Studio, Eclipse, NetBeans, Jupyter Notebook
<b>Document Preparation:</b>	$\LaTeX$
<b>Data/Code Management:</b>	Gitlab/Github, GitKraken, SVN, CVS
<b>Databases:</b>	Virtuoso, RocksDB, MySQL, PostgreSQL
<b>Information Retrieval:</b>	Apache Lucene
<b>Java Libraries:</b>	Standard Libraries (Apache Commons, Lang, etc.), JSON/XML Parsing
<b>Simulation Tools:</b>	Matlab Simulink, Scilab
<b>Geo-Information Systems:</b>	ArcGIS
<b>Natural Language Processing:</b>	Word Embeddings (gloVe, Word2Vec), spaCy
<b>Others:</b>	Maven, Weka, Apache Tika, Query Segmentation, Multithreading
<b>Others (Less proficient):</b>	Intel 8085 Programming, Wireshark

## ACHIEVEMENTS AND AWARDS

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DEC 2018	Received certificate for Best Master's degree in the academic year 2017/18 by Leibniz University Hannover.
JUN 2017	Research Paper on " <i>Building and Querying Semantic Layers for Web Archives</i> " nominated for Best Paper Award at JCDL 2017.
2011 - 2015	Received BITS Scholarship for Academic Excellence for the entire duration of Bachelor's Degree.

## EXTRA-CURRICULAR ACTIVITIES

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OCT 2019	SUB-REVIEWER ECIR 2020 Conference, Lisbon
OCT 2019	SUB-REVIEWER CHIIR 2020 Conference, Vancouver
SEP 2016	STUDENT VOLUNTEER, ORGANIZING COMMITTEE TPDL 2016 Conference, Hannover
MAY 2016	STUDENT VOLUNTEER, ORGANIZING COMMITTEE ACM WebSci'16 Conference, Hannover
SEP 2012 - JUN 2013	GENERAL SECRETARY, STUDENT COUNCIL BITS Pilani, Dubai

## LANGUAGES

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ENGLISH:	First Language (C2)
GERMAN:	Fluent (C1)
HINDI:	First Language (C2)

## LANGUAGE CERTIFICATIONS

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<b>English:</b>		
OCT 2019	IELTS (GENERAL)	Overall Band: 8.0/9.0
SEP 2014	IELTS (ACADEMIC)	Overall Band: 8.0/9.0
<b>German:</b>		
DEC 2019	GOETHE ZERTIFIKAT B2	Total Score: 82/100
NOV 2019	GOETHE ZERTIFIKAT B1	Total Score: 93/100
JUL 2015	GOETHE ZERTIFIKAT A1	Total Score: 95/100

## TECHNICAL CERTIFICATIONS

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APR 2020	<a href="#">COMPETITIVE PROGRAMMING (CODING NINJAS)</a>
MAR 2020	<a href="#">INTRODUCTION TO THE BASH SHELL ON MAC OS AND LINUX (PLURALSIGHT)</a>
OCT 2019	<a href="#">MASTER OBJECT ORIENTED DESIGN IN JAVA (UDEMY)</a>
SEP 2019	<a href="#">COMPLETE PYTHON BOOTCAMP (UDEMY)</a>
MAY 2019	<a href="#">IMPROVING DEEP NEURAL NETWORKS (COURSERA)</a>
MAY 2019	<a href="#">STRUCTURING MACHINE LEARNING PROJECTS (COURSERA)</a>
MAY 2019	<a href="#">NEURAL NETWORKS AND DEEP LEARNING (COURSERA)</a>

## INTERESTS AND ACTIVITIES

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Sketching, Swimming, Photography, Traveling

## M.Sc. in INTERNET TECHNOLOGIES AND INFORMATION SYSTEMS

### Grades

EXAM	GRADE	CREDITS
<b>Field of Competence I - Theoretical Foundations</b>		
Efficient Algorithms	1.0	5
Simulation Engineering	1.0	6
<b>Field of Competence II - Data and Information</b>		
Data Mining 1	2.3	5
Web Science	1.0	5
Knowledge Engineering and Semantic Web	1.0	5
Algorithms for Internet Applications	1.7	5
Foundations of Information Retrieval	1.3	5
Topics in Data Mining	1.0	5
<b>Field of Competence III - Networking and Communication</b>		
Seminar on Internet Technologies	1.3	5
Seminar: Security of Self-organizing Networks	1.0	5
<b>Field of Competence IV - Business and Law</b>		
Geo-Information Systems	1.0	5
<b>Soft Skills</b>		5
German Compact B1	1.0	
German Compact B2	1.0	
German B2/C1 - Oral Communication	1.3	
<b>Research Project</b>		
Research Project 1		30
<b>Master Thesis</b>		
Master Thesis	1.0	30
	<b>Total</b>	<b>121</b>
	<b>GPA</b>	<b>1.1 (German Scale)</b>

## B.E.(Hons.) in COMPUTER SCIENCE

### Grades (Relevant Courses)

EXAM	GRADE	UNITS
Computer Programming	A-	4
Digital Design	A	4
Discrete Structures for Computer Science	A	3
Logic in Computer Science	A-	3
Object Oriented Programming	A	4
Database Systems	A	4
Data Structures and Algorithms	B	4
Microprocessors and Interfacing	A	4
Theory of Computation	B	3
Operating Systems	A	3
Principles of Programming Languages	A-	2
Artificial Intelligence	A	3
Computer Architecture	A	4
Design Project I	A	3
Multimedia Computing	A	3
Design and Analysis of Algorithms	A	3
Compiler Construction	A-	3
Computer Networks	A	4
Software Engineering	A-	4
Special Project	A	3
Design Project II	A	3
Information Retrieval	A	3
Parallel Computing	A	3
	<b>GPA</b>	<b>9.77 (Indian Scale)</b>
		<b>1.1 (German Scale)</b>