vvvvvvv.pdf by Virtual Research Cooperative

Submission date: 17-May-2024 11:49AM (UTC+0800)

Submission ID: 2381568631 **File name:** vvvvvvvv.pdf (69.01M)

Word count: 32807

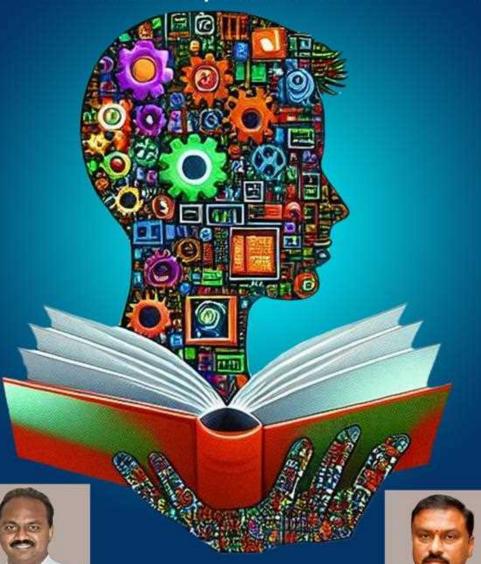
Character count: 181416



Commissionerate of Collegiate Education Government of Andhra Pradesh



AI TOOLS IN TEACHING, LEARNING AND RESEARCH



Sri J.Syamala Rao IAS Principal Secretary to Govt. of A.P., Dept. of Higher Education.

Dr. Pola Bhaskar IAS Commissioner of Collegiate Education, Govt. of Andhra Pradesh

Commissionerate of Collegiate Education Government of Andhra Pradesh

This book offers insights on the use of Artificial Intelligence (AI) in Higher Education. It provides educators with a curated selection of AI Tools to enhance Teaching, Learning, Assessment, and Research practices. These tools support the creation of dynamic e-learning materials within existing Single Major Curricular frameworks for all the subjects.

The Content of this book is drawn primarily from documentation and resources found on the official websites of the AI Tools discussed. The educators will discover the techniques to adapt and implement these tools in their regular teaching process, develop effective e-learning resources like video making, presentations, podcasts, assessment tools, etc.

This book is a Compilation of AI Tools which are available on Internet and is used only for educational purpose and not intended for commercial use.

Published by Commissionerate of Collegiate Education, Government of Andhra Pradesh Printed by M/s Flash Photostat, Patamata, Benz Circle, Vijayawada, AP No of copies – 300, April 2024

Chief Patron

Dr. Pola Bhaskar, IAS Commissioner, Collegiate Education, AP

Editorial Board

Prof. K. Srinivas, Head of ICT & PMU, NIEPA, New Delhi

Dr. C. Krishna, Joint Director, CCE, AP

Dr. Ch. Tulasi, Academic Guidance Officer, CCE, AP

Dr. A. V. Kavitha, OSD - IT, CCE, AP

Dr. P. Anil Kumar, OSD - Employability, CCE, AP

Dr. K. Vijaya Babu, OSD - Quality Initiatives, CCE, AP

Dr. N. Ramesh Babu, OSD - Placements, CCE, AP

Content Co-ordination

Sri P. Sreedhar, Academic Officer, O/o CCE, AP

Dr. Jangam J. S. Mani, Academic Officer, O/o CCE, AP

Dr. Ch. Naga Manisha, Academic Officer, O/o CCE, AP

Sri G. Ravi Teja, Academic Officer, O/o CCE, AP



Message

The Commissionerate of Collegiate Education has been implementing various useful initiatives for the development of the marginalised and the first-generation rural students of the state of Andhra Pradesh.

Apart from offering qualitative teaching, the department has been successful in harnessing technology with the traditional classroom teaching through LMS portal.

Now the department has come up with another e-innovation bringing AI-Artificial Intelligence into the classroom, keeping its pace with the fast track of technology, a dedicated IT team of the Academic Cell has brought out a book listing out various tools for use in the classroom.

Such innovations will always stand as beacon lights to inspire the future generations of teachers and students.

I wholeheartedly appreciate the efforts of the Commissioner and his team for bringing out this valuable gift, which is the need of the hour.

Sri. J. Syamala Rao, IAS
Principal Secretary to Government
Department of Higher Education
Andhra Pradesh



Message

It is with great pleasure to share that the book titled "AI Tools in Teaching, Learning & Research" is a comprehensive guide, that the authors have meticulously crafted a roadmap for navigating the dynamic landscape of generative artificial intelligence with practical demonstrations.

Through insightful analysis and practical examples, this book equips readers with the necessary tools and skills to harness the power of generative AI effectively in Teaching, Learning, Content Development, Assessments and Research. Whether you are a seasoned professional or just beginning your journey in AI, this book offers valuable insights and strategies to elevate your understanding and proficiency in this field.

I commend the authors for their dedication and expertise in demystifying complex concepts and providing actionable advice. "AI Tools in Teaching, Learning & Research" is a must-read for anyone looking to stay ahead in the rapidly evolving world of artificial intelligence.

I appreciate the efforts of the Team from Commissionaire of Collegiate Education, Government of Andhra Pradesh for bringing such a worthy book.

Prof. K. Srinivas

Head ICT & Project Management Unit

National Institute of Educational Planning
and Administration

New Delhi



Foreword

It is heartening to note that the Academic Cell of the Commissionerate of Collegiate Education is bringing out a book to offer a variety of AI tools for use in Teaching, Learning, Evaluation and Research processes.

In tune with the vision of our Government of Andhra Pradesh, our department is striving to implement the AI tools in the Teaching – Learning process of Collegiate Education.

AI (Artificial Intelligence) tools are increasingly important across various fields and industries to automate tasks, analyse vast amounts of data, and make informed decisions.

The importance of AI tools has gained a new significance due to their innovative ability and creative potential. The Zen-Z wants creative presentation skills for faster learning and application. AI has gathered its space by offering 'personalised learning tools, intelligent tutoring systems and creative content production' in an unimaginable time limit.

This book offers a variety of tools with impressive screen shots to guide the teachers for content creation and presentation.

I appreciate the team for compiling a useful resource on the AI tools, which is an essential requirement for the present-day teaching.

With best wishes,

Dr. Pola Bhaskar, IAS

Commissioner of Collegiate Education
Government of Andhra Pradesh

ACKNOWLEDGEMENTS

The compilation of this book, "Artificial Intelligence Tools in Teaching, Learning and Research" would not have been possible without the invaluable support and contributions from a multitude of individuals and organizations. We extend our sincere thanks to the Government of Andhra Pradesh and Sri J. Syamala Rao, IAS, Principal Secretary to Government, Department of Higher Education, Andhra Pradesh, for their vision and unwavering commitment to integrate cutting-edge technologies like Artificial Intelligence into the State's Educational landscape. Their dedication to empowering educators and students with these tools paves the way for a brighter future.

Our heartfelt thanks to Dr. Pola Bhaskar, IAS, Commissioner of Collegiate Education, Andhra Pradesh, for his constant support and able guidance throughout the development of this book. His vision of Digital Inclusion in Higher Education enhances the quality of Education in Andhra Pradesh Government Degree Colleges which also bagged Skoch Gold award.

We extend our sincere thanks to Prof. K. Srinivas, Head ICT & PMU, NIEPA, New Delhi for his continuous support & guidance and to the dedicated Officers of the Commissionerate of

Collegiate Education, Andhra Pradesh, whose tireless efforts, and technical expertise were crucial in compiling and organizing this information.

Finally, we acknowledge the contributions of all the **sources of the AI Tools** referenced in this book. Their innovative work in
developing and implementing AI solutions for education has laid the
foundation for this resource.

We believe this book serves as a valuable resource for educators, researchers, and policymakers in Andhra Pradesh, promoting the effective use of AI tools to transform the Teaching, Learning, Evaluation, and Research landscape in the State's Educational Institutions.

Table of Contents

Chapter	Content	Page No
	Profile of the Department	
1	Introduction	
	1.1 AI – What is it?	1
	1.2 Why Education Needs AI Integration	2
	1.3 AI Revolutionizing Education	3
	1.4 In this Book	3
2	AI In Teaching	
	2.1 Presentation Tools	
	2.1.1 Gamma	5
1	2.1.2 Tome	20
	2.1.3 BeautifulAI	32
	2.1.4 SlidesGo	41
	2.1.5 Canva Presentation	51
	2.2 Text – to – Video Generation Tools	
	2.2.1 InVideo	59
	2.2.2 FlexClip	65
	2.2.3 Veed	73
9	2.2.4 Fliki	78
	2.3 Text – to – Image Generation Tools	
	2.3.1 Midjourney	86
	2.3.2 DreamStudio	99
	2.3,3 NightCafe Studio	104
	2.3.4 Dezgo	109
	2.3.5 Wepik	114

	2.4 One Stop Solutions	
	2.4.1 Eduaide	120
	2.4.2 Curipod	127
	2.4.3 Canva Magic Write	144
	2.4.4 to-teach	147
	2.4.5 AudioPen	157
3	AI In Learning	
	3.1 LLM Tools	
	3.1.1 ChatGPT	167
	3.1.2 Gemini	173
	3.1.3 Copilot	180
	3.1.4 Yoodli	189
	3.1.5 Merlin	199
4	AI In Evaluation	
	4.1 AI Tools in Evaluation	
	4.1.1 Conker	209
	4.1.2 Survey Sparrow	215
	4.1.3 Survey Monkey	230
	4.1.4 Lime Survey	250
	4.1.5 TypeForm	259
	4.1.6 QuizGecko	272
5	AI In Research & Data Analysis	
	5.1 AI Tools for Research	
	5.1.1 ConnectedPapers	279
	5.1.2 ResearchRabbit	284
	5.1.3 Consensus	293
	5.1.4 ChatPDF	299

Bibliography	344
5.2.2 Julius	330
5.2.1 Polymer	322
5.2 AI Tools for Data Analysis	
5.1.7 Plag.ai	314
5.1.6 Trinka	309
5.1.5 TypeSet	303

Editorial Board



Dr. C. Krishna Joint Director, Commissionerate of Collegiate Education, AP



Dr. Ch. Tulasi Academic Guidance Officer, Commissionerate of Collegiate Education, AP



Prof. K. Srinivas Head of ICT & PMU, NIEPA, New Delhi



Dr. P. Anil Kumar Ottor on Special Duty-Employability.



Dr. K. Vijaya Babu
Officer on Special Dusy - Quality fromatices,
Commissionerate of Collegians Education, AF Com-



Dr. A. V. Kavitha
Officer on Special Duty - IT,
minimissionerane of Collegian Education,



Dr. N. Ramesh Babu Officer on Special Day - Placement, ommissionerspic of Collegistic Education Al

Content Coordinators from Commissionerate of Collegiate Education, AP



P. Sreedhar Academic Officer



Dr. Jangam. J. S. Mani Academic Officer



Dr. Chinta Naga Manisha Academic Officer



G. Ravi Teja Academic Officer



Commissionerate of Collegiate Education Government of Andhra Pradesh





AI TOOLS IN TEACHING, LEARNING AND RESEARCH

Published by: Commissionerate of Collegiate Education, Government of Andhra Pradesh Mangalagiri, Guntur Dist.



ORIGINA	ALITY REPORT			
SIMILA	% ARITY INDEX	6% INTERNET SOURCES	2% PUBLICATIONS	1% STUDENT PAPERS
PRIMAR	Y SOURCES			
1	manual. Internet Source	limesurvey.org		1 %
2	nesslabs Internet Source			1 %
3	listens.o			1 %
4	Oladoku Temitop "chapter Artificial and Lea	unmi Dorcas Ba in, Ganiyu Oluw e Oluwatofunm 9 ChatGPT and Intelligence (AI rning as Integra porary Universit 2023	vaseyi Quadri, ni Idowu-Davie d Other Gener d) Tools in Teac ntive Pathways	es. rative ching s to
5	www.ed			<1%

formtek.com

www.longshot.ai
Internet Source

7	Internet Source	<1%
8	www.appypie.com Internet Source	<1%
9	www.toodledo.com Internet Source	<1%
10	dlibrary.univ-boumerdes.dz:8080 Internet Source	<1%
11	co41.revistapasajes.com Internet Source	<1%
12	invideo.io Internet Source	<1%
13	Submitted to Trident University International Student Paper	<1%
14	coinguides.org Internet Source	<1%
15	www.nstec.com Internet Source	<1%
16	Amanpreet Kaur, Ritu Sharma, Pooja Mishra, Atasi Sinhababu, Rupak Chakravarty. "Visual Research Discovery Using Connected Papers: A Use Case of Blockchain in Libraries", The Serials Librarian, 2023 Publication	<1%

17	Internet Source	<1 %
18	"Advances in Data and Information Sciences", Springer Science and Business Media LLC, 2024 Publication	<1%
19	Survicate.com Internet Source	<1%
20	Submitted to RDI Distance Learning Student Paper	<1%
21	www.geeksforgeeks.org Internet Source	<1%
22	en.wikipedia.org Internet Source	<1%
23	Akshay Kulkarni, Adarsha Shivananda, Anoosh Kulkarni, Dilip Gudivada. "Applied Generative AI for Beginners", Springer Science and Business Media LLC, 2023 Publication	<1 %
24	www.sace.sa.edu.au Internet Source	<1%
25	www.jalis.in Internet Source	<1%
26	apegazette.cgg.gov.in Internet Source	<1%

27	Submitted to Brigham Young University, Hawaii Student Paper	<1%
28	Joan Miguel Tejedor Estupiñán. "Inteligencia artificial para la investigación económica", Revista Finanzas y Política Económica, 2024 Publication	<1%
29	ejournal.unp.ac.id Internet Source	<1%
30	www.simplilearn.com Internet Source	<1%
31	Mina Huh, Yi-Hao Peng, Amy Pavel. "GenAssist: Making Image Generation Accessible", Proceedings of the 36th Annual ACM Symposium on User Interface Software and Technology, 2023 Publication	<1%
32	idc-online.ac.za Internet Source	<1%
33	prsu.ac.in Internet Source	<1%
34	seofocuspoint.com Internet Source	<1%
35	sgtuniversity.ac.in Internet Source	<1%

36	Submitted to Long Beach City College Student Paper	<1%
37	Submitted to University of London External System Student Paper	<1%
38	www.typeform.com Internet Source	<1%
39	hackmerced-ix.devpost.com Internet Source	<1%
40	Submitted to Hong Kong University of Science and Technology Student Paper	<1%
41	coda.io Internet Source	<1%
42	ujcontent.uj.ac.za Internet Source	<1%
43	Submitted to City University of Hong Kong Student Paper	<1%
44	Submitted to Ho Chi Minh City Open University Student Paper	<1%
45	Shakhnoza Shamsuddinova, Poonam Heryani, Mark Anthony Naval. "Evolution to revolution: Critical exploration of educators' perceptions of the impact of Artificial Intelligence (AI) on	<1%

the teaching and learning process in the GCC region", International Journal of Educational Research, 2024

Publication

46	ambcrypto.com Internet Source	<1%
47	internshipreports.yolasite.com Internet Source	<1%
48	James C. L. Chow, Valerie Wong, Leslie Sanders, Kay Li. "Developing an AI-Assisted Educational Chatbot for Radiotherapy Using the IBM Watson Assistant Platform", Healthcare, 2023 Publication	<1%
49	atlas.mindmup.com Internet Source	<1%
50	Submitted to St. Mary's Catholic College Student Paper	<1%
51	assets.kpmg.com Internet Source	<1%
52	botpanels.com Internet Source	<1%
53	pure.iiasa.ac.at Internet Source	<1%
54	www.c-sharpcorner.com Internet Source	<1%

55	blog.uvm.edu Internet Source	<1%
56	jbinternational.co.uk Internet Source	<1%
57	www.thetechedvocate.org Internet Source	<1%
58	93t14.service-finder.eu Internet Source	<1%
59	Wiggins, Ramona Whitworth. "Faculty Attitudes Regarding Artificial Intelligence Usage at an HBCU", Tennessee State University, 2024 Publication	<1%
60	dessign.net Internet Source	<1%
61	ekaterina-khuraskina.ru Internet Source	<1%
62	www.dochub.com Internet Source	<1%
63	www.indianretailer.com Internet Source	<1%
64	www.theknowledgeacademy.com Internet Source	<1%

65	"Information Integration and Web Intelligence", Springer Science and Business Media LLC, 2023 Publication	<1%
66	Francisco Javier Campos Zabala. "Chapter 10 Neural Networks, Deep Learning, Foundational Models", Springer Science and Business Media LLC, 2023 Publication	<1%
67	Mandira Bairagi, Shalini Ramdas Lihitkar. "chapter 8 Optimizing Library Services Through the Integration of Artificial Intelligence Tools and Techniques", IGI Global, 2024 Publication	<1%
68	eprints.umsida.ac.id Internet Source	<1%
69	freeradicals2013.de Internet Source	<1%
70	visual-paradigm-ce.updatestar.com Internet Source	<1%
71	wmk3m.service-finder.eu Internet Source	<1%
72	www.leadfeeder.com Internet Source	<1%

Exclude quotes Off Exclude bibliography Off

Publication

Exclude matches

Off