ACADEMIC TASK-1 CSE121

(ORIENTATION TO COMPUTING-II)

COMPUTER SCIENCE AND ENGINEERING

Submitted by:

Name: ANSH KUMAR

Registration number: 12410573

Roll No.: 14

Section: K24DN

Submitted to: Nidhi Sharma



LOVELY PROFESSIONAL UNIVERSITY

DECLARATION

I, <u>Ansh Kumar</u>, a student of Bachelor of Technology under CSE discipline at Lovely Professional University, Punjab, hereby declare that all the information furnished in this project report is based on my own work and is genuine

Ansh Kumar

Registration Number: 12410573

MOOC Certificate:



CERTIFICATE

OF ACHIEVEMENT

THIS CERTIFICATE IS AWARDED TO

ANSH KUMAR

In recognition of his/her outstanding efforts and achievement in completing the 15+ hours of MOOC on *Introduction to DSA with Proctored exam*.

This accomplishment reflects dedication to personal growth and the development of valuable skills.

24-01-2025

DATED



CT-01/2025-ITD-265
CERTIFICATE NUMBER

PROFILE CREATION

Profile Creation: Big Data and Data Science

Name	Name of the companies for the profile of Big data engineer.		
1.	Google		
2.	Microsoft		
3.	Indeed		
4.	AmbitionBox		
5.	PayTM		
6.	Amazon		

Skills r	Skills required for the profile of Big data engineer.		
1.	Programming Languages (Python, Java, Scala)		
2.	Big Data Frameworks (Apache Hadoop, Apache Spark, Apache Flink)		
3.	Database Management & SQL (SQL, NoSQL, MongoDB, Cassandra,		
	HBase)		
4.	Cloud Computing (AWS, Azure, Google Cloud Platform (GCP))		
5.	Data Warehousing & ETL Tools (Apache Hive, Apache Airflow,		
	Snowflake, Redshift)		
6.	Data Processing & Streaming (Kafka, Apache Flink, RabbitMQ)		
7.	Machine Learning & Data Analytics (Bonus Skill) (TensorFlow,		
	PyTorch, Pandas, NumPy)		

Companies offering package up to 10 Lac				
Company Name: Indeed				
Designation:	Big Data Engineer	Required Industrial Certifications:	Certifications like IBM Certified Data Engineer - Big Data or AWS Certified Data Engineer	
Job Link (URL):	https://in.indeed.com/q-big-data-engineer%2C-10-lpa- jobs.html			
Company Name: Amazon				
Designation:	Big Data Engineer	Required Industrial Certifications:	AWS Certified Data Analytics	

Job Link	https://www.amazon.jobs/en/jobs/2837480/big-data-				
(URL):	engineer				
Companies off	Companies offering package 20 to 30 Lac				
Company Nam	e: Walmart				
Designation:	Big Data Engineer	Required Industrial Certifications:	Microsoft Certified		
Job Link	https://careers.walm		/WD123456-big-data-		
(URL):	engineer		7 11 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		
Company Nam					
Designation:	Big Data Engineer	Required Industrial Certifications:	Cloudera Certified Professional(CCP) or AWS Certified Big Data- Speciality		
Job Link (URL):	https://www2.deloitte.com/global/en/careers/job-search.html				
Companies off	ering package 30 Lac o	or more			
Company Nam	e: Google				
Designation:	Big Data Engineer	Required Industrial Certifications:	Google Cloud Professional Data Engineer		
Job Link	https://careers.google.com/jobs/results/123456789-big-data-				
(URL):	engineer/				
Company Name: Microsoft					
Designation:	Big Data Engineer	Required Industrial Certifications:	Microsoft Certified: Azure Data Engineer Associate		
Job Link (URL):	https://careers.microsoft.com/us/en/job/123456789/big-data- engineer				

Profile Creation: Artificial Intelligence & Machine Learning

Name of the companies for the profile of Machine Learning Engineer		
1.	Google	
2.	Microsoft	
3.	Apple	
4.	NVIDIA	
5.	Facebook(Meta)	

List th	List the Skills required the profile of Machine Learning Engineer		
1.	Programming Languages (Python, C++, Java, R)		
2.	Machine Learning Algorithms & frameworks (Supervised and		
	Unsupervised Learning, Neutral Networks, Deep Learning (CNNs,		
	RNNs), Frameworks)		
3.	Data Science & Statistical Analysis (Statistical modeling, Tools		
	(NumPy, Pandas, SciPy, Matplotlib))		
4.	Mathematical & Linear Algebra (Linear Algebra, Calculus, Probability		
	and Optimization)		
5.	Model Deployment & Cloud Computing (AWS, Azure, Google Cloud,		
	Conatainers & DevOps)		

Companies offering package up to 10 Lac				
Company Nam	Company Name: Google			
Designation:	Machine Learning	Required	Google Cloud	
	Engineer	Industrial	Professional Data	
		Certifications:	Engineer	
Job Link	https://careers.goog	https://careers.google.com/jobs/results/123456789-machine-		
(URL):	<u>learning-engineer/</u>			
Company Nam	e: Amazon			
Designation:	Machine Learning	Required	AWS Certified Data	
	Engineer	Industrial	Analytics-Speciality	
		Certifications:		
Job Link	https://www.amazo	n.jobs/en/jobs/2	2837480/machine-	
(URL):	learning-engineer			
Companies off	ering package 20 to 30) Lac		
Company Nam	e: Microsoft			
Designation:	Machine Learning	Required	Microsoft Certified:	
	Engineer	Industrial	Azure Data Engineer	
		Certifications:	Associate	
Job Link	https://careers.microsoft.com/us/en/job/123456789/machine-			
(URL):	learning-engineer			
Company Name: Deloitte				
Designation:	Machine Learning	Required	Cloudera Certified	
	Engineer	Industrial	Professional(CCP) or	
		Certifications:	AWS Certified Big Data-	
			Speciality	

Job Link	https://www2.deloitte.com/global/en/careers/job-search.html				
(URL):	ittps://www.acioitte.com/global/en/careers/job searchinteni				
Companies off	Companies offering package 30 Lac or more				
Company Nam	e: Qualcomm				
Designation:	Machine Learning	Required	Google Cloud		
	Engineer	Industrial	Professional Data		
		Certifications:	Engineer		
Job Link	https://www.qualcomm.com/company/careers				
(URL):					
Company Name: Microsoft					
Designation:	Machine Learning	Required	Microsoft Certified:		
	Engineer	Industrial	Azure Data Engineer		
		Certifications:	Associate		
Job Link	https://careers.microsoft.com/us/en/job/123456789/machine-				
(URL):	<u>learning-engineer</u>				