Knishnaeay Thadisal AI ROUND 15" 4 Feb 4 2029 Blockchain Technology Q.1. Features of Blockchain Technology 1 Decentralization No single authority controls the network. Transactions are verified by multiple nodes. (2) I mutability One data is seconded on the blockchain, it cannot be altered or deleted. 3 Transparancy La rautions ale publishy visible. Excuing accountability 4 Semety Uses comptographic hashing mechanisms t pluset flowed and cyberattactes 3 Consenas Methaniems: Transactions are validated though consumer protocols
like proof of Work (POW) or Proof of stake
(POS) FOR EDUCATIONAL USE Sundaram

6	Smagt Contraits
	self executing contrats with predefind Ruly and conditions.
	Distributed ledge: -
	Every participant is the network has a uppy
	Tohengation:
	Digital assets can be segresented as tokens on
(8.2)	Poly of Vacious stakeholdes is Hoch chain tehndogy
- >	D Usus: Individuds of organizations that initiate theoreations on the blockchain. (2) Miner / Valedatur: Nodes that validate francations and validate blocks on the blockchain.
	Developes: Build & maintain blockclain perfocole (3) Regulative: Govt bookies that ensure compliance. (3) Businesses & Entupeias: Utilize blockchain for buyley chain management
(Sundaram)	6) Crypto Exchange : Failitate buying & selling. (2) Network Nody: Maintain integrity of blockschan' (3) Government entitity: Olganizations that manage. FOR EDUCATIONAL USE blockschain updates & deisin-making process.

6.4	Consensus Algorithm in Blockshain Technology
1' ->	
/	Proof of Work (POW) - Miners compete to solve cegotography puzzles; used in bitcoin.
2.	That of state: Validators are chosen based on the number of color they stake.
	the number of coing they stake.
-	
3 ->	Delegated proof of stake: (DPOS): User vote for delegates who validate transactions.
11 · · ·	orange of the second of the se
4 ->	Prof of Authority: Transactions are validated
N .	Prof of Authority: Transactions are validated by trucked hods with known identities.
	and the second of the second o
57	Pravical Byzantine Fourt Tolerane: (PBFT): Consensus & searched through a majority agreement of modes.
	Consensus is searched otherough a majority agreement
	et may.
6 ->	Proof of Buen (POB): - Validators buen coing
12.0-1.	to gain mining Elght.
	0 0
7 ->	Prof of Elopsed Time (POET) - Nodes wait
	for a sandomized time to get mining
	Rights.
8 →	Hyssed POW / POS - Combine POS & pow for
	bette sewity & energy officiency.
	FOR EDUCATIONAL USE
Sundaram	FOR EDUCATIONAL USE

A STATE OF THE REAL PROPERTY AND ADDRESS OF THE PARTY AND ADDRESS OF TH	Polis of Hash Abgorithm in Blockchain Technology.
\rightarrow	1 Data Integrity: trashing ensures that any
	alteration in data sesuits in a completely different hash values.
	De Formutability: # Teansactions are hashed and linked together, preventing data tampeting
	3) Pigital Signatures: Used for authentication of verification of transactions.
	Prof of work: Minus some cayptoglaptic purples using back functions to volidate transactions.
À	(3) Addens generation: Hashing is used to usate unique public h private by pays.
	@ Mukle Tsey: Osganizes transactions is a block using hashes, allowing efficient verification.
	Beweity: Crypt-großhir hach functions like SHA-256 Secur Am blookchain from attack
	(8) Pata conpussion: Hashing helps is ufficiently storing of setting blockchair data.
Sundaram	FOR EDUCATIONAL USE

(b.5	Applications of Blockchair Technology
	alyptocurrencies
	U'
(2)	Rupply Chain Managiment
(3)	ft ealthcare
F4	Finance & Banking
(5)	Voting Systems.
(6)	Intellectual Property & Copyright
	' 0
(7)	Real Estati
(3)	Intent of Things (IOT)
21 27	
Robbin A	Cryptokuray
-7	Coins like Bitcom & Ethereum un blockshows
E. Toward	Ar Sewe Transactions.
Land La	mind the world of
\rightarrow	Unlike tradetioned systems, they sely on
	peur to peur transactions
	Public Blockchains allow aryon to very
	tsayathon.
(Sundaram)	FOR EDUCATIONAL USE
	-> Diaglan

