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**BRACU Thesis Research** with Dr. Mahbub Alam Majumdar January 2019-January 2021  
 Worked on *Blockchain-based Land Registry with Delegated Proof of Stake (DPoS)* research paper.  
 Developed a land registry system using DPoS consensus by implementing cryptographic hashes and the SHA256 hash function to ensure data integrity and immutability.  
 Made a three-layer hierarchy (Computational, Information, and Council Nodes) to prevent 51% attacks by distributing computational tasks and integrating zoning to enhance data security and scalability.  
 Enhanced system with a Council Protocol to improve election fairness and prevent centralization, which reduced computational waste and increased energy efficiency.

Projects	<b>AI-Matching Platform For VCs and Investors</b> August 2024-Present <ul style="list-style-type: none"> <li>Developed a novel AI matchmaking hub using Python, Streamlit, and Google Gemini AI that connected founders with investors, resulting in a more streamlined process for securing funding.</li> <li>Built a LLM pipeline using LangChain and Relevance AI for accurate data extraction and matching that enhanced the personalization of investor-founder connections through tailored responses.</li> <li>Received an invitation to present the idea at the Buildspace (YC-funded) startup conference in San Francisco, demonstrating its potential impact on the venture capital ecosystem.</li> </ul>
	<b>Predicting Taxi Fares in New York City</b> January 2023-May 2022 <ul style="list-style-type: none"> <li>Developed machine learning models using XGBoost and LightGBM to predict taxi fares in NYC, analyzing 1.5 million taxi trip records with key geographic and time features.</li> <li>Created data preprocessing pipeline to handle 3.5 million taxi trips, including data cleansing, feature engineering of temporal variables, and optimization of numeric data types for efficient model training.</li> <li>Demonstrated practical fare prediction accuracy within \$1-2 of actual fares for most trips with LightGBM achieving 7x faster computation time compared to XGBoost on CPU implementation.</li> </ul>
	<b>Web 3.0 App Transaction App</b> January 2022-May 2022 <ul style="list-style-type: none"> <li>Developed a decentralized exchange platform on the Ethereum blockchain using Solidity smart contracts and Next.js, enabling secure peer-to-peer token transactions and integration through MetaMask.</li> <li>Built full-stack app Next.js frontend with Tailwind CSS styling, integrating Sanity.io database for efficient user data and transaction history management through GROQ queries and Sanity API.</li> <li>Created a secure deployment pipeline using Hardhat for smart contract testing and Vercel for production hosting, demonstrating enactment of Web3 technology in a decentralized application.</li> </ul>
Teaching Experience	<b>BRACU Mathematics and Natural Sciences Department</b> May 2022-January 2023 Student Tutor for MAT092 (Remedial Course in Mathematics) <ul style="list-style-type: none"> <li>Collaborated with 3 faculty members to mentor 110+ students, conducting regular 1-on-1 sessions.</li> <li>Assisted faculty staff with grading assignments and proctoring quizzes, midterms, and final exams.</li> </ul>
	<b>Primus Institute</b> August 2023-March 2024 GCE O and AS-Level Physics Instructor <ul style="list-style-type: none"> <li>Conducted 3 weekly classes with 30+ students per class at the afterschool teaching center.</li> </ul>
Networking Venture	<b>NotFixedYet Podcast</b> December 2023- Present Creator and Founder <ul style="list-style-type: none"> <li>Interview with Tom Sosnoff (CEO of <i>tastylove</i>. Sold Tastytrade for 1 billion dollars and Thinkorswim for 750 million dollars)</li> <li>Interview with Alex Costa (Ex-Googler and Founder of Forte Series) and Michael Sartain (Former US Air Force Captain and Founder of MOA Mentoring)</li> </ul>
Awards & Achievements	2022 BRACU Dean's List 2021 BRACU VC's List 2021 National Round Finalist in Bangladesh Blockchain Olympiad for Team Landchain (Top 10%) 2019 BRACU Dean's List
Community Involvement	MedicsKit, <i>Founder</i> January 2021- December 2021 COVID-19 Relief Initiative that provided essential 1000+ PPE (personal protective equipment) to doctors in remote areas.
Languages Spoken	Bengali (Native), English (Advanced Level), German(Basic Level), Arabic(Basic Level)
Technical Skills	<b>Programming Languages</b> Python, JavaScript, C++, Java, Solidity <b>Development Tools and Frameworks</b> MS Visual Studio, SQL Server, Git, Next.js, React