



CFS ORIGIN 2026

Problem Statements

Code For Simples (CFS) Community

EVENT	CFS ORIGIN 2026
DOCUMENT	Official Problem Statements
DOMAINS	Web3 • AI / ML • Data Science • Business & Innovation • Open Innovation

Build practical solutions. Solve real problems. Create impact.

W3-01 — VeriSkill — Digital Certificate Verification

Problem Statement: Build a platform where colleges or training institutes can issue digital certificates that students can store and employers can verify. The system should make certificate verification faster and reduce fake or altered certificates.

Suggested modules

- Issuer portal for colleges/institutes
- Student digital credential wallet
- QR-based certificate verification
- Certificate expiry/revocation
- Employer verification page

W3-02 — TraceChain — Product Tracking System

Problem Statement: Build a blockchain-based product tracking system that records important stages of a product journey from supplier to customer. Customers should be able to scan a QR code and view trusted product information.

Suggested modules

- Supplier and product registration
- Batch/serial number tracking
- Blockchain event records
- QR-code verification
- Product history dashboard

W3-03 — GreenLedger — Green Activity Tracker

Problem Statement: Build a transparent platform for recording and verifying sustainability activities such as tree plantation, recycling or renewable-energy contributions. Users should be able to see the history and impact of recorded activities.

Suggested modules

- Activity submission
- Verification workflow
- Impact calculation
- Public activity history
- Organization dashboard

W3-04 — ZeroPass — Privacy-Friendly Digital Verification

Problem Statement: Build a digital verification system where a user can prove a simple fact, such as being above a required age or having completed an approved verification, without sharing unnecessary personal information.

Suggested modules

- Digital identity/wallet
- Credential issuance
- Selective information sharing
- Verification portal
- Credential expiry/revocation

W3-05 — CreatorChain — Digital Creator Royalty Platform

Problem Statement: Build a platform where creators can register digital work, define ownership shares and distribute payments automatically when licensed content is used or sold.

Suggested modules

- Creator and work registration
- Ownership/share management
- Smart-contract payment logic
- Royalty history
- Creator dashboard

AI-01 — Smart Maintenance — Machine Failure Prediction

Problem Statement: Factories often face unexpected machine breakdowns. Build an ML system that uses past machine readings and maintenance records to predict whether a machine may require maintenance soon.

Suggested modules

- Upload sensor/maintenance data
- Failure-risk prediction
- Basic feature analysis
- Maintenance alerts
- Machine dashboard

AI-02 — VisionQC — Product Defect Detection

Problem Statement: Manual quality checking can miss small defects and takes time. Build a computer-vision system that checks product images and identifies common defects such as cracks, missing parts, scratches or wrong labels.

Suggested modules

- Image upload/camera input
- Image preprocessing
- Defect classification
- Confidence score
- Quality dashboard

AI-03 — AI Helpdesk — Smart College/Business Assistant

Problem Statement: Students and employees repeatedly ask questions about services, documents, schedules and processes. Build an AI assistant that answers questions using an approved knowledge base and directs users to the correct information.

Suggested modules

- Knowledge-base upload
- Question answering
- Source/reference display
- Admin content management
- Conversation history

AI-04 — DemandPredict — Sales Forecasting Assistant

Problem Statement: Small businesses often find it difficult to estimate future sales. Build an ML system that uses previous sales data to forecast upcoming demand and help businesses plan stock.

Suggested modules

- CSV/data upload
- Sales visualization
- Demand forecasting
- Basic trend/seasonality analysis
- Stock recommendation

AI-05 — SafeAI — AI Response Quality Checker

Problem Statement: AI-generated answers can sometimes contain unsupported or unsafe information. Build a tool that checks AI responses for issues such as missing sources, sensitive information or potentially unreliable claims and provides a simple risk score.

Suggested modules

- Prompt/response input
- Basic risk checks
- Sensitive-data detection
- Source/grounding check
- Quality dashboard

DS-01 — PayGuard — Transaction Anomaly Detection

Problem Statement: Build a data analytics system that identifies unusual digital payment transactions using factors such as amount, time, frequency and transaction history.

Suggested modules

- Transaction data upload
- Data cleaning
- Anomaly/risk score
- Transaction visualization
- Investigation dashboard

DS-02 — GridSight — Energy Usage Analytics

Problem Statement: Buildings and campuses generate energy-consumption data but often do not know where excessive usage occurs. Build a dashboard that analyzes consumption, identifies unusual usage and estimates future demand.

Suggested modules

- Meter-data upload
- Daily/monthly analysis
- Anomaly detection
- Demand forecast
- Energy-saving insights

DS-03 — TransitIQ — Public Transport Demand Analysis

Problem Statement: Transport operators need to know which routes and time periods have high passenger demand. Analyze historical travel data and create a system that predicts demand and highlights routes requiring more or fewer resources.

Suggested modules

- Trip-data analysis
- Route/time visualization
- Demand prediction
- Peak-hour detection
- Recommendation dashboard

DS-04 — Customer360 — Customer Churn Predictor

Problem Statement: Businesses lose customers without knowing which customers are likely to leave. Build a model that predicts customer churn and shows the main factors contributing to the prediction.

Suggested modules

- Customer-data upload
- Customer segmentation
- Churn prediction
- Important-factor analysis
- Retention dashboard

DS-05 — SupplySense — Supplier Performance Analytics

Problem Statement: Businesses depend on multiple suppliers and need to compare them on delivery time, quality and cost. Build a data-driven platform that scores suppliers and helps managers identify reliable and risky suppliers.

Suggested modules

- Supplier data management
- Delivery analysis
- Quality metrics
- Supplier score
- Comparison dashboard

BUSINESS & INNOVATION

No fixed problem statement — complete freedom for business ideas.

BUILD YOUR OWN BUSINESS IDEA.

Participants are free to build any project, product, application, platform or technology solution they want.

The project must be business-related and should solve a real customer or market problem.

A clear and practical business model is mandatory. Teams should explain how the product can create value and generate revenue or become a sustainable business.

Technology is open: AI/ML, Web3, Web, Mobile, IoT, Hardware, Data Science, Cloud or any combination.

OPEN INNO VATION

No fixed problem statement — complete freedom for innovation.

BUILD ANYTHING.

Participants are free to choose any real-world problem, idea, domain or technology and build a working solution.

There is no predefined problem statement and no restriction on the technology or application domain.

What matters: problem clarity, innovation, usefulness, working prototype, technical implementation and impact.

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