ZORDIE AI — Data Scientist 1 & Data Scientist 2 Combined Task Breakdown

Tasks:

1. Resume Intelligence System

Owned Jointly by: DS1 + DS2

Tasks:

- Build a **Resume Analysis Engine** that performs:
 - Section Detection
 - o Skill-to-JD Alignment
 - o Project Relevance Analysis
 - o Formatting and Trustworthiness Checks
 - Inflation/Deception Flags

Components:

A. Section & Structure Detector (DS1)

- Use NLP techniques (spaCy + Regex + Transformer models) to extract:
 - Education
 - Work Experience
 - o Projects
 - o Certifications
 - o Skills
 - Summary
- Flag missing or underdeveloped sections.

B. Skill-to-JD Semantic Matcher (DS1)

- Use **SBERT/BERT embeddings** to:
 - o Compare candidate skills with job JD
 - o Calculate alignment % score
 - o Highlight missing critical skills

C. Project Validation System (DS1)

NLP analysis of project descriptions:

- o Compare with skills listed
- Flag unrelated projects
- o Score depth and tech relevance

D. Formatting Scorer (DS2)

- Detect formatting issues:
 - o Bullet usage
 - Font consistency
 - o Section headers
 - o Length limits
- Use rule-based scoring:
 - o Penalize for walls of text, inconsistent fonts, etc.

E. Resume Trustworthiness & Inflation Detector (DS2)

- Text fingerprinting and skill-tag inflation detection
- Cross-check GitHub/Figma projects vs claimed experience
- Create "Resume Inflation Flags" if:
 - Skills > evidence
 - o Copied text blocks
 - Unrealistic claims

F. Credibility & Verifiability Engine (DS2)

- Cross-check:
 - Certificates
 - LinkedIn activity
 - o GitHub contributions
 - Use scrapers to verify names on certs

G. Final Resume Quality Score & Issue Report (DS1 + DS2)

- Output structured JSON with:
 - o Resume Score (out of 100)
 - Alignment %
 - Formatting Score
 - o Trust Score
 - o Flags + Recommendations

2. Multi-Platform Link Crawling + Data Extraction System

Owned Jointly by: DS1 + DS2

Objective:

• Build link crawler that crawls all links found in resume, not just GitHub.

Platforms to crawl:

- GitHub (repos, commits, issues)
- LeetCode (solved problems, ranking)
- Figma, Dribbble, Framer (designs, stars, forks)
- Kaggle (notebooks, rankings)
- LinkedIn (activity posts, endorsements, skills)
- Medium, Behance, etc.

Tasks:

A. Universal Link Crawler Engine (DS2)

- Design a headless browser + crawler system using Playwright/Selenium +
 BeautifulSoup
- Accept any resume link and detect:
 - Type of platform
 - o Whether it's public or not
 - Extract basic metadata (titles, project names, followers, engagement)

B. Platform-Specific Data Extractors (DS1)

- Write crawlers/scrapers:
 - o GitHub: repo names, stars, forks, language distribution, commit graphs
 - o Figma/Dribbble: project names, like counts, design tags
 - LeetCode: total solved, rating, top problem types
 - o Kaggle: notebook count, competitions, ranks
 - o LinkedIn: post frequency, endorsements, skill match

C. Metadata Normalizer & Schema Designer (DS2)

- Design unified schema to store:
 - Platform
 - Link Type
 - o Engagement Stats
 - Content Types
 - o Relevance Scores
 - Date of Last Activity

3. Scoring and Prediction Systems

Owned Jointly by: DS1 + DS2

Tasks:

A. GitHub Technical Skill Predictor (DS1 Lead)

- Analyze cloned GitHub repos using:
 - o AST for structure
 - o Cyclomatic complexity
 - Test coverage
 - Originality check (w/ plagiarism API)

- Generate:
 - o Technical Skill Score
 - Code Quality Grade (A–F)
 - o Originality %

B. Multi-Platform Weighted Score Engine (DS2)

- Create scoring formulas per platform:
 - o LeetCode → Algorithmic Score
 - o Kaggle → Data Science Depth Score
 - o Figma/Dribbble → Creative Score
 - o LinkedIn → Social Trust Score
- Final weighted score system:
- final_score = 0.3 * GitHub_score +
- 0.2 * LeetCode_score +
- 0.2 * Cert_score +
- 0.1 * Design_score +
- 0.1 * Resume_score +
- 0.1 * LinkedIn_activity_score

C. Al-Based Prediction Engine (DS1)

- Use training data from known hires to:
 - o Train a classifier (e.g., XGBoost, Random Forest)
 - Predict:
 - "Likely to Pass Technical Round"
 - "Good Culture Fit"
 - "High Learning Adaptability"

D. Explainability Layer (DS2)

- Show HR:
 - o Why someone got a score
 - o Which strengths and weaknesses matter
 - o What the prediction means

Tools & Frameworks:

Task Tools/Tech Stack

Resume Parsing PyMuPDF, spaCy, Regex

Skill-JD Matching SBERT, BERT, cosine similarity

Crawling Playwright, Selenium, BeautifulSoup

GitHub Analysis GitPython, AST, Plagiarism API

ML Models XGBoost, LightGBM, Sklearn Pipelines

Resume Score System Custom Rule Engine + ML Features

Storage & Normalization MongoDB, PostgreSQL, JSON Schemas

APIs FastAPI / Flask (to serve scoring engine)

Monitoring Logging w/ Prometheus, AlertManager, Cron Schedulers