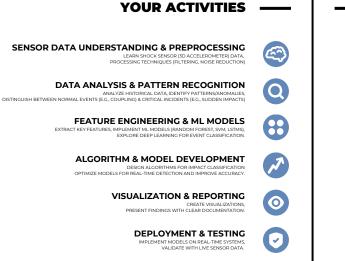# KONVOI

DATA SCIENTIST

AT KONVOI WE'RE DEDICATED TO ENHANCE VEHICLE SECURITY AND MONITORING THROUGH SENSOR TECHNOLOGY, INCLUDING SHOCK SENSORS (3D ACCELEROMETERS), MOTION SENSORS, AND GPS. OUR GOAL IS TO ANALYZE SENSOR DATA TO IMPROVE TRANSPORTATION SAFETY, PREVENT THEFT, AND ENABLE PREDICTIVE MAINTENANCE.

WE'RE LOOKING FOR A DATA SCIENCE INTERN WHO IS EAGER TO WORK WITH SHOCK SENSOR (3D ACCELEROMETER) DATA AND DEVELOP MODELS TO DETECT KEY EVENTS LIKE LOADING, UNLOADING, (DE-)COUPLING AND SUDDEN IMPACTS.
IF YOU'RE PASSIONATE ABOUT SENSOR DATA, SIGNAL PROCESSING, AND MACHINE LEARNING, THIS IS A GREAT OPPORTUNITY TO GAIN HANDS-ON EXPERIENCE AND MAKE A REAL IMPACT!

OUR YOUNG TEAM IS WORKING FULL SPEED ON BROAD MARKET ENTRY AND NEEDS YOUR SUPPORT!

YOUR ACTIVITIES

SENSOR DATA UNDERSTANDING & PREPROCESSING
LEARN SHOCK SENSOR (3D ACCELEROMETER) DATA,
PROCESSING TECHNIQUES (FILTERING, NOISE REDUCTION)

DATA ANALYSIS & PATTERN RECOGNITION
ANALYZE HISTORICAL DATA, IDENTIFY PATTERNS/ANOMALIES,
DISTINGUISH BETWEEN NORMAL EVENTS (E.G., COUPLING) & CRITICAL INCIDENTS (E.G., SUDDEN IMPACTS)

FEATURE ENGINEERING & ML MODELS
EXTRACT KEY FEATURES, IMPLEMENT ML MODELS (RANDOM FOREST, SVM, LSTMS),
EXPLORE DEEP LEARNING FOR EVENT CLASSIFICATION.

ALGORITHM & MODEL DEVELOPMENT
DESIGN ALGORITHMS FOR IMPACT CLASSIFICATION
OPTIMIZE MODELS FOR REAL-TIME DETECTION AND IMPROVE ACCURACY.

VISUALIZATION & REPORTING
CREATE VISUALIZATIONS,
PRESENT FINDINGS WITH CLEAR DOCUMENTATION.

DEPLOYMENT & TESTING
IMPLEMENT MODELS ON REAL-TIME SYSTEMS,
VALIDATE WITH LIVE SENSOR DATA.

YOUR SKILLS

EDUCATION
PURSUING A DEGREE IN DATA SCIENCE, COMPUTER SCIENCE,
ELECTRICAL ENGINEERING, MECHATRONICS, OR A RELATED FIELD

PROGRAMMING
STRONG KNOWLEDGE OF PYTHON
(NUMPY, PANDAS, SCIPY, SCIKIT-LEARN, TENSORFLOW/PYTORCH, ETC.)

MACHINE LEARNING
UNDERSTANDING OF ML MODELS, TIME-SERIES ANALYSIS
AND BASIC DEEP LEARNING TECHNIQUES.

SIGNAL PROCESSING
FAMILIARITY WITH SIGNAL PROCESSING IS A PLUS.

DATA VISUALIZATION
EXPERIENCE WITH PLOTLY, MATPLOTLIB ETC.

PROBLEM-SOLVING
ABILITY TO EXPERIMENT
AND INNOVATE FOR REAL-WORLD PROBLEMS

WHAT WE HAVE AT KONVOI

FUN & MOTIVATION IN THE DAILY WORK ROUTINE, BOOSTED BY MANY FREEDOMS

A YOUNG, DYNAMIC, & SUPPORTING COMPANY CULTURE

ENTHUSIASM FOR NEW THINGS & OPENNESS TO CHANGE

TRANSPARENT COMMUNICATION AND HONESTY ARE OUR STRENGTHS

OPEN OFFICES & ALL THE BENEFITS OF THE START-UP NETWORK STARTUP DOCK, HK100, DIGITAL HUB LOGISTICS

IDEALLY YOU ARE WELL ORGANIZED, STRUCTURED AND WANT TO WORK IN AN INDEPENDENT, INTERNATIONAL TEAM. WITH US, THIS MEANS A HANDS-ON MENTALITY AND RESPONSIBILITY FOR IMPORTANT ISSUES. NO MATTER IF DURING YOUR STUDIES, AS PART OF AN INTERNSHIP OR AS A DUAL STUDY CONCEPT - WITH US YOU HAVE THE OPPORTUNITY TO TAKE ON LEADERSHIP RESPONSIBILITY AT AN EARLY STAGE. YOU ALWAYS WONDERED HOW STARTUPS BECOME INDUSTRY LEADERS? JOIN US AND MAKE IT HAPPEN WITH US TOGETHER! SIMPLY CONTACT US BY E-MAIL, WHATSAPP OR CALL US DIRECTLY. WE LOOK FORWARD TO YOUR MOTIVATION AND YOUR INTEREST IN WORKING WITH US.