RADU GALAN

Web Resume

MACHINE LEARNING ENGINEER • DEVELOPER • CONTRACTOR

Having 3+ years of work experience, solid academical background and diverse projects
I can handle a wide range of responsibilities.
I have a definitive passion for general knowledge and multidisciplinarity but above all,
I excel in solving abstract business problems with targeted algorithms and models.

LET'S CONNECT

Mobile: +40 726 560 272
Mail: radu.galan1@gmail.com
Skype: radu.galan1
LinkedIn: Radu Galan
Location: Relocation / Remote(RO)
Git: github.com/RaduGalan1/pers_proj

ACADEMICAL

Master's in Artificial Intelligence

***Babes-Bolyai University* |**

- Presented scientific articles at national and international conferences
- Received merit scholarship
- Publishing in IEEE Access
- Rewarded a research grant for my thesis

Bachelor's in Computer Science

***Babes-Bolyai University* |**

- Presented scientific article at national conferences
- Coordinated & Participated in projects added to the university's portfolio
- Year representative and ONG member

DISTINCTIONS
(LAST 2 YEARS)

- Bronze for Idea Pitching competition
- Participation in 3 International hackathons
- Qualified for a 7-month Startup Incubator
- Qualified in semi-finals of an international autonomous RC driving contest by Bosch

STRONG POINTS
(relevant ones)

- Social skills (debate, public speaker, pitcher)
- Team player (5+ teams coordinated)
- Knowledge (passionate reader of physics, mathematics, psychology, philosophy, anthropology, and history)
- Creative (pious study and recreative practice of several artistical schools: sculpture, painting, art history, digital animation, cinematography)

WORK EXPERIENCE

MACHINE LEARNING & COMPUTER VISION ENGINEER

.lumen *nov 2020 - present (28 months)*

Artificial Intelligence

- research and benchmarked SOTA in Computer Vision, NLP, and AI-related for 5+ broad intelligent tasks using PyTorch, scikit, NumPy, open
- conceptualized new algorithms for detection and classification with 90-95% accuracies
- integrated, validated and optimized models pipeline for execution on cloud, Linux & ROS

Data Processing

- created standardized data for validation of optical character recognition, object detection
- integrated feature engineering and sensor fusion with SLAM and navigation algorithms
- designed and constructed a pipeline for complete & generalized data processing methods in object detection, segmentations and classifications

Embedded

- engaged in ML-related design and testing of hardware components
- optimized low-level processing (GPU, DLA, PVA) using advanced libraries (Cuda, VPI, TRT)

Architecture and management

- cooperated using git and R&D for a prototype model methodology
- tested and presented regularly the product in demos to investors and stakeholders
- mentored new employees in ML and data science departments
- identifying and adapting business needs to solutions into the product weekly
- contributed to software planning, management decisions
- helped in business-related responsibilities and miscellaneous tasks (from pr, hr to logistics)

MACHINE LEARNING ENGINEER

Robert Bosch *iun 2019 - aug 2020 (13 months)*

Teamwork and methodology

- cooperated using agile methods with 8-12 members
- planned the project timeline for iterative development
- designed the architecture, behaviour and structure
- documented the process consistently, diagnosed and visualized results

Statistics and Big data

- dynamic anomaly detection on time series signal using statistical modelling for +99% accuracy
- processing big data streams using spark, Hadoop, & map reduce concepts on 20+ TB dataset
- deployed SOTA solution as a docker container in a multi-node cluster

Machine Learning and Active learning

- implemented labelling & diagnosis interface in video classification for a 20x faster process
- trained & fine tuned transfer learning CNN model in Keras for the classification of street infrastructure with 93-98% accuracy
- innovated with a semi-supervised active learning pipeline for similar performance with 8-24x faster training and 10-80x less data (work presented in conferences)

OTHER PROJECTS
(Access my git for details and videos)

- Spatially explicit anthropological simulations with intelligent agents,
- Embedded optimized technologies for autonomous RC car driving scenarios,
- Active learning for semi-supervised TL classification,
- Intelligent pattern matching for time-series data,
- Multi-document NLP analysis with an ontology-based search algorithm,