Nguyen Trung Nghia

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EXPERIENCE

- **VinGroup - Big Data Institute** Hanoi, VN
  Computer Vision Researcher, Medical Imaging *June 2019 - Now*
  - Built model serving workers to classify and detect the ROI bounding boxes for CADx, CADe system.
  - Developed the algorithms that accurately determine when lesions in the lungs are cancerous.
  - Language/Technology: Python, Javascript, Pytorch, Flask, RabbitMQ, AWS.

- **InfoRe Technology** Hanoi, VN
  Machine Learning Engineer *Mar 2017 - June 2019*
  - Developed a dashboard which rely on face recognition and people counting for small and medium stores in Vietnam.
  - Categorized Facebook's trend posts using Natural Language Processing techniques
  - Developed models for sentiment module (smcc.vn).
  - Language/Technology: Python, Flask, RabbitMQ, Redis, Fasttext.

  Software Engineer (Intern) *Sep 2016 - Mar 2017*
  - Worked on the mobile version of smcc.vn.
  - Worked on APIs and additional tools for data crawling, data analysis.
  - Language/Technology: C#, Java, Python, Android Studio, React Native.

HONORS AND AWARDS

- **Ranked 13th in RSNA Intracranial Hemorrhage Detection** Oct 2019
  - Built an end-to-end neural network that combines Convolutional Neural Networks with a Long Short-term Memory mechanism for accurate prediction of intracranial hemorrhage on Computed Tomography scans. Achieved 13th out of 1345 teams (top 1%).

- **Ranked 18th in Recursion Cellular Image Classification** Aug 2019
  - Proposed a solution that trains Convolutional Neural Networks to disentangle biological signal and apply the Hungarian algorithm to solve Linear Assignment Problem for the top performance at 18th place out of 866 teams (top 3%).

- **Top 4% in SIIM-ACR Pneumothorax Segmentation** Aug 2019
  - Built a 2-stage pipeline that contains a segmentation network, follow up with a classifier to identify Pneumothorax disease in Chest X-ray Images. Achieved 57th place out of 1475 participating teams (top 4%).

- **Runner-up - VPBank Hackathon AI** Jul 2018
  - Built a voice assistant, Stifr, that automatically answer and provide some basic bank services from customer service. This application is associated with NLP and Speech Recognition.

- **Third prize - Oxfam Datalab Hackathon in Vietnam** Dec 2017
  - Developed a data-driven tool to help Hanoi Citizens better prepare for floods in 48 hours.

- **Best AI model - AI Edtech Asia Hackathon** May 2017
  - Developed an Optical Character Recognition system that recognize text from captured photos of book with Convolutional Neural Network and Image Processing.

- **Winner - CodeWar** Apr 2017
  - Took response mainly in ACM and AI tasks in my team. The contest was organized by Framgia, contestants have to solve ACM, CTF problems and build an AI bot to play game with other teams.

- **Third prize - Vietnam National Olympiad in Informatics** Feb 2014
  - Completed individually to solve algorithm problems in 3 hours in 2 days. The contest was organized annually for high school students with around 400 competitors.

EDUCATION

- **VNU, University of Engineering and Technology** Hanoi, VN
  Bachelor of Computer Science; GPA: 3.50/4.00 *Sep. 2015 – Jul. 2019*