

# JAMES BINGHAM

Machine Learning Engineer : Improving The Deep Learning Experience With Augmented Algorithms To Increase Program Efficiency By 95%

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## SUMMARY

Machine Learning (ML) Engineer with 8+ years of experience in managing machine learning lifecycles end-to-end in manufacturing and healthcare.

Apt at developing, building, and maintaining ML pipelines to increase data accuracy and predictability by a 45% AVG.

Fully experienced in creating machine learning models and retraining systems and transforming data science prototypes to production-grade solutions.

Possess strong cooperation and communication skills

## EXPERIENCE

### Machine Learning Engineer

MobiDev 02/2020 - 11/2021 Norcross, GA

Company, specializing in AI and ML solutions for manufacturing and production.

- Designed and developed analysis systems to extract information from large scale data.
- Developed customer segmentation algorithm in R leading to 22% increase in market share.
- Optimized personalization algorithms for applications with 2M+ users.
- Applied data mining to shipping consolidation problem, saving \$1.2M.
- Predicted product sales to within 2% by applying logistic regression model.

### ML Researcher: NLP and Speech Recognition

Insighture 03/2017 - 02/2020 Melbourne, Australia

They offer enterprise app modernization, cloud consulting & SI, application testing, Artificial Intelligence, and more.

- Developed and integrated large-scale, distributed machine learning system lifecycles utilising cutting-edge open source technologies.
- Created software that helps you increase your rate of experimentation and make better decisions on what to explore next.
- improved distributed cloud GPU training approaches for deep learning models, including data distribution editing, data quality improvements, and representation learning with self-supervision.
- Collaborated with multi-disciplinary product development teams to find possibilities for performance improvement and incorporate trained models.
- Developed a machine learning pipeline and trained models with the end-to-end Bayesian segmentation network, resulting in a \$400000 annual savings.
- Expertise in using PyTorch, TensorFlow, and Keras to train and deploy CNN, LSTM, and other Sequence models on Azure and AWS.

### Full Stack Developer

JEKYLL 2016 - 2017 Barcelona, Spain

Business consulting company

- Led and mentored one NodeJS backend developer, 2 React Front-End developersto create efficient, and effective 3+ websitesfor 80K customers.
- Coached the bi-weekly standup to review the code, version control, discuss about the project and assign new tickets

## SKILLS

End-to-end deployment

Machine Learning Automation

Algorithms Statistics Python C++

C# JavaScript PHP Node.js

Innovations APIs Leadership

## EDUCATION

### Bachelor of Science in Applied Computer Science

Polytechnic University of Madrid

2010 - 2014 Madrid, Spain

## PROJECTS

### Chatbot for restaurant recommendation using NLP

2021 Norcross, GA

This side-project is a friendly chatbot that makes restaurant recommendations.

- Developed own API model, so that the robot successfully analyzes the emotions using APIs

### Labeling for MNIST Fashion Images Classification using Semi-Supervised Learning

2021 Norcross, GA

Using only 1k train data set, achieved over 90% accuracy for the entire data set.