ABHISHEK SHARMA

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EDUCATION

University of California, Berkeley   *August 2017 - May 2021*
B.S. Electrical Engineering & Computer Science, Certificate in Entrepreneurship & Technology   *Berkeley, CA*

Relevant Coursework *Machine Learning — Artificial Intelligence — Deep Reinforcement Learning — Data Structures & Algorithms — Data Science — Discrete Math & Probability Theory — Linear Algebra — Machine Structures — Operating Systems*

PROFESSIONAL EXPERIENCE

Amazon   May 2019 - August 2019
Software Development Engineer Intern   *Seattle, WA*

· Helping ∼25 million customers with healthcare needs by implementing a web application in conjunction with PillPack Inc. (NDA)
· Authored backend application interface and frontend mockup to be consumed by PillPack users and Amazon customer service team.
· Built RESTful service in Java to be integrated into Amazon Retail's API layer to deliver retail healthcare product data.

Google   January 2019 - April 2019
Data Analytics Fellow   *Mountain View, CA*

· Derived novel 'explosiveness' metric for ranking teams for Google Cloud's March Madness Analytics Campaign. (Python, SQL)
· Architected Deep Neural Network regression design to predict statistics in college basketball tournament games with 71% accuracy.
· Starred in 2 documentaries and 2 television commercials with live predictions at half-time of Championship Game. (g.co/marchmadness)

Oracle   July 2018 - November 2018
Data Analyst Intern   *San Francisco, CA*

· Optimized solar energy output predictions for ∼16 million customers by validating deep neural-network based approach.
· Achieved ∼10% error rate by implementing Neural Network and Random Forest energy forecasting models.
· Reduced program runtime by 80% by migrating feature implementation from web-based API to deep learning models.

International Computer Science Institute (ICSI)   May 2018 - August 2018
Data Scientist Intern   *Berkeley, CA*

· Contributed to improving AudioSet sound recognition deep learning project by building AudioNet, a fully annotated audio dataset.
· Wrote shell scripts in Bash to automate data cleaning and implemented hearing-screen tool used to hire new project members.
· Automated audio/video data annotation process by building annotation pipeline software and maintaining dev tools on AWS server.

ACTIVITIES & LEADERSHIP

Intel   February 2019 - Present
Artificial Intelligence Student Ambassador   *Berkeley, CA*

· Selected for graduate-level fellowship; conducting independent Machine Learning research with Intel computing resources.
· Investigating a new method of learning to rank (information retrieval problem) n by applying the deep q-learning algorithm.

Convergent UC Berkeley   September 2018 - Present
Co-Founder, Director of Engineering — www.calconvergent.com   *Berkeley, CA*

· Co-founded 2nd chapter of product development organization. Recruiting and full-stack website development (Node.js).

PROJECTS

Recommendation Systems   Jan 2019 - April 2019
github.com/abhi1345/recommendation-systems   *Berkeley, CA*

· Built 5 popular recommendation system algorithms, including collaborative filter, used at LinkedIn, Amazon, Netflix, etc.
· Used Python, NumPy, Pandas to implement k-Nearest-Neigbors, Logistic Regression, and Singular Value Decomposition for backend.

Stocksify - Stock Prediction Tool   May 2018 - Aug 2018
Machine Learning for Stock Prediction   *Fremont, CA*

· Implemented multiple machine learning models for stock prediction in Python, deployed to web application.
· Current models in use: LSTM Neural Network, Support Vector Machines, Binary Logistic Regression (in progress).

SKILLS

Programming Languages Python, Java, Javascript, R, MATLAB, C, HTML, CSS
Machine Learning Libraries Tensorflow, PyTorch, Keras, Scikit-learn, Spark, MapReduce, Pandas, NumPy
Applications Development Remote Procedural Call, RESTful, Node.js, Java Spring, Amazon Web Services