# 1. machine-learning-cheat-sheet.tex

%%%%%%%%%%%%%%%%%%%%%%%% editor.tex %%%%%%%%%%%%%%%%%%%%%%%%%%%%%  
%  
% sample root file for the contributions of a "contributed volume"  
%  
% Use this file as a template for your own input.  
%  
%%%%%%%%%%%%%%%%%%%%%%%%%%%%% Springer %%%%%%%%%%%%%%%%%%%%%%%%%%  
  
% RECOMMENDED %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%  
\documentclass[graybox, envcountchap, twocolumn]{styles/svmult}  
\usepackage[T1,T2A]{fontenc}  
%\usepackage[utf8]{inputenc}  
\usepackage[russian, english]{babel}  
% general metadata:  
\author{soulmachine@gmail.com}  
\begin{otherlanguage}{russian}  
\title{Шпаргалка по машинному обучению}  
  
\subtitle{Классические уравнения, диаграммы и приемы машинного обучения}  
\end{otherlanguage}  
% choose options for [] as required from the list  
% in the Reference Guide  
  
\usepackage{amssymb,amsmath,bm}  
\DeclareMathAlphabet{\mathcal}{OMS}{cmsy}{m}{n}  
\usepackage{textcomp}  
\newcommand\abs[1]{\left\lvert#1\right\rvert}  
\usepackage{longtable}  
\usepackage{algorithm2e}  
\usepackage{tocbibind}  
\usepackage[toc]{multitoc}  
\renewcommand{\bibname}{References}  
\usepackage{mathptmx} % selects Times Roman as basic font  
\usepackage{helvet} % selects Helvetica as sans-serif font  
\usepackage{courier} % selects Courier as typewriter font  
%\usepackage{type1cm} % activate if the above 3 fonts are   
 % not available on your system  
  
\usepackage{makeidx} % allows index generation  
\usepackage{graphicx} % standard LaTeX graphics tool  
 % when including figure files  
\usepackage[justification=centering]{caption}  
\usepackage{subfig}  
\usepackage{multicol} % used for the two-column index  
\usepackage{multirow}  
\usepackage[bottom]{footmisc}% places footnotes at page bottom  
\usepackage[bookmarksnumbered=true,  
 bookmarksopen=true,  
 colorlinks=true,  
 linkcolor=blue,  
 anchorcolor=blue,  
 citecolor=blue  
 ]{hyperref}  
  
\graphicspath{{figures/}}  
  
% see the list of further useful packages in the Reference Guide  
  
\makeindex % used for the subject index  
 % please use the style svind.ist with  
 % your makeindex program  
  
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%  
  
\begin{document}  
  
\frontmatter%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%  
  
\include{titlepage}  
%\include{dedic}  
%\include{foreword}  
\include{preface}  
%\include{acknow}  
  
\tableofcontents  
\include{cblist}  
%\include{acronym}  
\include{notation}  
  
  
\mainmatter%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%  
%\include{part}  
\include{chapterIntroduction}  
\include{chapterProbability}  
\include{chapterGenerativeModels}  
\include{chapterMVN}  
\include{chapterBayesianStatistics}  
\include{chapterFrequentistStatistics}  
\include{chapterLinearRegression}  
\include{chapterLogisticRegression}  
\include{chapterGLM}  
\include{chapterDGM}  
\include{chapterEM}  
\include{chapterLatentLinearModels}  
\include{chapterSparseLinearModels}  
\include{chapterKernels}  
\include{chapterGP}  
\include{chapterABM}  
\include{chapterHMM}  
\include{chapterSSM}  
\include{chapterUGM}  
\include{chapterExactInferenceForGraphicalModels}  
\include{chapterVariationalInference}  
\include{chapterMoreVariationalInference}  
\include{chapterMonteCarloInference}  
\include{chapterMCMC}  
\include{chapterClustering}  
\include{chapterStructureLearning}  
\include{chapterLVM}  
\include{chapterDeepLearning}  
%  
  
\backmatter%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%  
\appendix  
\include{chapterOptimization}  
\include{glossary}  
\printindex  
  
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%  
  
\end{document}